ARREF

Natural History

Intermixed with variety

OF

Philosophical Discourses;

AND

REFUTATIONS

Of fuch

VULGAR ERROURS

As our Modern Authors have hitherto omitted.

By Eugenius Philalethes.

LONDON

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THE.

EPISTLE

TO THE TIME

READER



Presume I shall no sooner appear upon the Stage I am prepared for, but

I must without evasion expect to be assaulted by that furious and inconsiderate Monster called Censour; whose lashes I will receive

Entinophical Discourant

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BERLATIONS

John Co

VIEGAR ERROURS

A cour Modern Authors in we have have buttered.

Sy Engerier Philisher!

NOOK DI

for Alexander Small cure doors to the College of th

The Epifle

with the same slight concern, the Lacedemonians did the cruelty of their Correctors, sporting themselves whilst their backs were torn with the unmerciful Whip. Of that efficacy is Resolution, that it presents pain but meer Opinion, and values a scoffing Lucian, or a satyrical Memphus, no more then a harmles Hettespont did the vain threats of a proud Xerxes. Seneca faith well, better alind agere quam nibil, for Idleness

to the Reader.

Idleness is the Devils opportunity: the Confiderations of which (with my affent to the Judgment of Thucidides, who layes, To know a thing and not to express its is all one asthough he knew, it not) made me to expose my self to publick view.My Subject is good and great, called by the Name of Nature; here I present her, expressing mans Ingratitude; who is fit to strip her of those Robes of Privilege that

The Epistle of

that God himself chath endowied ther with not : confidefine that what she acts; is by the vertue of his Power, and that She is one of those. Mirrours that represents him to us, which a Philosophick Paffion adores as the supream: Efficient. But indeed, how can She expect our Veneration, till we have divested our selves of that prejudice ignorance possesses with, which must be done by a serious reflex upon her Effects,

to the Reader.

as this little Volumn will acquaint you, if you read it with an impartial and unbyased Reason; for I have as all others of the same Inclination must do, used Philosophy as the Tellescope by which we must make our Observations, as you will, when you fee, find my curiofity descending tolittle Insects, and that with wonder at their production out of Corruption; from thence I view her care in beautifying this little Globe

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The Epifele

we live in, with Robes sutable to every Season; and when I ascend the lower Region, and mark the Clouds ranging themselves in such bodies as though they intended another Deluge, it occasions. wonder; so likewise the coldness of the middle Region with the heat of the upper, and the Element of Fire, must be Miracles to ignorance. And if we observe the Moon, with the Motion attending that of the Seas flux and reflux

to the Reader.

flux it would make us judge, that there is some secret contract made ab Origine betwixther and the watery Element. Mercury and Venus I have spoken of in their places: the next that presents us with cause of Admiration is the glorious Sun, the Luminary of the Universe, called by some, and not improperly, the Anima Mundi for we find her approach gives life to Vegitives, sense to Animals, and ālmost a new Nature to Rationals

The Epifile

onals. As for Mars, Jupiter, and Saturn, the Eighth Sphere, and Christalline Heaven, & the Empyreum, I have treated on, if not like a knowing Secretary of Nature, yet a submis Admirer of her. And whereas I make a refutation of Errours, as an addition to my Title, some perhaps will say, Iamlike the Tinker, that for stopping of one hole make two, or for my refuting of one Errour, I have made two; it may be I have

to the Reader.

in the Opinion of some: But whether I have or no who shall be judge? for what appears an Errour to one is to anothera very exident thuth: fometimes a Week or a Day, nay an hour purs a change upon an Opinion of many wears standing. But let my Erroursbeasgreat and asmany as I pretend to correct, Reason shall convince me, and command my Acknowledgmentzforit sour Errours that prefents us humano H

in

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have writthis to give Satisfaction to others if boan; but if not, how loverd have secured it to my self; And let the Riender judge of ites it pleases bim. I have write that which delights me; rAndif envie causo a inisapplication of my intention bits thanters not, the contempt of it will make mebold to fay! Lvature ir and thee after the rate is and commandant middle buoth The reassertions hereglaid down are plain and perspione ous, OVIII -

to the Reader.

ous, convincing and fails factory to the intelligent. But I know that common prejudice which is usually -taken of any things (though never forme) which is contrary to any mans beliefudt does beget fuch Passion and animostry, coc. and makes fuch atbreach as is hardly to be repaired. And fince our own Opinion may make it disputable what reasons we have to pretend to convince another by, Ishallonly offer this देशके अधिकारिक

The Episte &c.

this for common latisfaction, that things demonstrable are the most evident marks of Truth; and that they are co clearly manifested in this little Book, deserves nothing but sobriety and moderation, and a well weighing of the matter herein contained. Reader, I am lothito leave thee, but that I would not keep thee from the Bookit self, which I hope will be to thy ample latisfaction, wert. another by Lala Victoria Eugenius Philalethes.



Natural History

Intermixed

With variety of Philosophical Discourses, &co.



OD by his presential Essence gives unto all things an Essence; so that it he should withdraw himself from them, as out of Nothing they were first made, lo into Nothing they would be again refolved. In the preservation then of the Creature, we are not to consider so much the impotency and weaknris thereof, as the

goldatels, wildom, and power of the Creator, in whom, and by whom, and for whom, they live, move, and have their being. The pirit of the Lord filleth the world, latth the Author of the Wiftom of Sommon; and the fecter working of the Spirit, which thus pierceth through all things, as Virgil Entid 6. hath excellently express,

Principio calum ac terras campesque Liquentes, Lucentemano glebum Lune, Titania, astru, Spiritus intus alit, totamque insusa per artus, Mens agitat molem & magne se corporemiscet.

The Heavensittle Earth and all the Liquid
Main.

The Moons bright Globe and Stats Ti-

A Spirit within maintains, and their whole

A Mind, which through each part infus'd doth pals,

Falhions and works and wholly doth transpierce

All this great body of the Univerle.

The Spirit the Plannis call the Soul of the World; by it, it is in some sort quickned and formalized, as the body of Man is by its teafonable Soul. There is no question then, but that

that this Soukef the Workl, Lif we may fo Philipwahreners being in truth no other the indickally income Creator is able for townseethe Body of the Warld Immorfall and to preferre it fight Diffolution as he doch the Abyen, and the foliation men, were र्ग चेंशिलीिक लगे किलांसमुज्ञानके तम्ब्रिस स्मित्र स्वाप्त में स्व by the fartie Hepernandal And extraordinary Power! by which at the first he gave hexistence. For my own pair I constantly believe that ichad a beginning, and thall have an ending and judgillim not worthy of the name of a Christians who is not of the same mind; vet fo as 4 believe both to be mauer of faith: Through Fulth we winderstand that the Worlds were framed by the Word of God, Heb. 1'1. 3. And through the fame Faith we understand like-Wife, that they shall-be again unframed by the lame Word. Reafon may grope at this truth hithe darke howbeit, it can never clearly apprehend it. till it be enlightned by the bright beams of Faith. Though I deny not but that it is probable, though not demonstrative, and convincing Alguments may be drawn from the discourse of Reason, to prove either the whe or the other.

diestion, Viram Mundus sile generalt concursation, Der perpetualist and for the most part they conclude it affirmatively, even such as B 2 professed

projessed the Christian Religion, and for the proof of this assertion, they bring in effect this reason. The Heavens say they, are of a nature which is not capable of it selfs of corruption; the loss of the Elements is recovered by compensation, of mixt bodies without kise by accretion, of living bodies by succession, the fall of the one being the rise of the other: as Rome triumphed in the ruines of Alba, and the depression of one Scale is the elevation of another; according to that of Solemon, One generation passes have, and another generation cometh, but the Earth abideth for ever, Eccles. 1. 4.

Again, all Subcœlestial Bodies (as is evident) consist of Matter and Form; now the first Matter having nothing contrary unto it, cannot by the force of Nature be destroyed; and being Created immediately by God, it cannot be abolibed by any inferiour Agent. And as for the Forms of Natural Bodies, no sooner doth any one abandon the Matter it informed, but another instantly steps into the place thereof; no sooner hath one acted his part and is retired, but another presently comes forth upon the Stage, though it may be in a different shape, and to act a different pare; so that no proportion of Matter is, or at any time can be altogether void and empty; but like Vertumes or Protess it turns it self into a thousand Shapes, and is alwayes supplied and furnished with one Form

Form or other, by a power Divine above Natime? but to proceed, luch ind fo great is the Wildom the Bounty, and the Omnipotence which God hath exptelled to the Frame of the Heavens, that the Platent linight juffly fay, The Heavens declare the glory of Gol, Pfal. 19. 1. The Sun, and the Moon, and the Stars serving as so many Silver and Golden Characterstembroidered upon azure for the daily Preaching and Publishing thereof to the World And furely if he have made the Hoor of this great house so beautiful, and garnished it with such wonderful variety of Beafts, of Trees, of Herbs, of Flowers, we need wonder the less at the Magnificence of the Roof which is the highest parr of the World, and the nearest to the Mansion House of Saints and Angels 2 Now as the excellency of these bodies appear in their Situation, their Matter, their Magnitude, and their Spherical and Circular Figure: 10 specially in their great use and efficacy; not only that they are for Signes and Scalons and for Days and Years; but in that by their Motion, their Light, their warmth, and Influence, they guide and govern, nay cherish and maintain, breed and beget these Inferiour Bodies, even of Man himself, for whose sake the Heavens were made. It is truly faid of the Prince of Philosophers, Sol & homo generant bominem, the Sun and Man beget Man: Man concurring

in the generation of Man as an immediate and the Sun asa remore caulers of adin anns ther place he doubts not to affirm of this the feriour World in general. Needla Ko Mundum interior em super intibat laurious continuario 45 apri pis inde Vireus Geriuspura, Ic is reginluc, chat thele interious parts of the World should be co-joyage to the Metions of the higher 198 dies, that loall their Vieue and vigous might bessegn thence derived, a publication bave a marvellous great Arnak upon the Air, the Water, the Earth, the Plants, the Mettals, the Beilts, and upon Man, himlelf nat, least wife in regard of his body, and parues laculties. To let pals the qualling and withering of act things by their teckles and their reviving and refurrection, (asit mere) by the graceels of the Sun- l'am of opinion that the lap of the trees so precisely follows the manion of the Sun, that it never refts, but is in a confinnal agitation, as the Sun it lelf : which no lonner arrives at the Tropice, but he instanty treturns, and even at the very instant (as I-conceive) and I think it may be demonstrated by experimental Conclusions) the fap which by degrees descended with the declination of the Sun begins to remove at the approach thereof by the Same steps that it descended : And as the ap. proach of the Sin is scarce sensible at his field

return

return, but afterwards the day increases more in one week, than before in two; in like man ner also fares it with the Sap, in Plants, which at the first ascends up insensibly and slowly, but within a while much more swiftly and apparently. It is certain that the Tulip, Marigold, and Sun flower open with the rising, and thut with the setting of the Sun; so that though the Sun appear not, a man may more infallibly know when it is high noon by their full spreading, then by the Index of a Clock or Watch. The Hopin its growing windeth it self about the Pole, always following the course of the Sun from East to West, and can by no means be drawn to the contrary, choofing rather to break then yield.

It is observed; by those that Sayl between the Tropicks, that there is a constant set Wind, blowing from the East to the West, Saylers call it the Breeze, which rises and falls with the Sun, and is always highest at noon; and is commonly so strong, partly by its own blowing, and partly by over-ruling the Currant, that they who sayl to Porm, cannot well return the same way they came south: And generally Marriners do observe, that ceteris parisus, they sayl with more speed from the East to the West, then back again from the West to the East, in the same compass of time. All which should argue a wheeling about of the Air, and Waters.

Waters by the diurnal Motion of the Heavens, and especial by the motion of the Sun. Whereunto may be added, that high-Sea springs of the year, are always nearer about the two

*Equinollials and Solflices; and the Cock as a trulty Watchman, both at midnight and break of day, gives notice of the Suns approach.

These be the strange and secret effects of the Sun, upon the inferiour Bodies; whence by the Gentiles he was held the visible God of the World: and termed the Eye thereof, which alone saw all things in the World, and by which the World saw all things in it self.

Omnia qui videt, & per quem videt omnia Mun-

And most notably it is described by the Psalmist, in them bath he set a Tahernacle for the Sun, which is as a Bridegroom coming out of his Chamber, and rejoyceth as a strong man to run a race, his going sorth is from the beginning of the Heaven, and his Circuite to the end of it, and there is nothing hid from the heat thereof, Psal. 1945.6.

Now as the effects of the Sun, the headspring of Light and warmth, are upon these
inferiour Bodies more active, so hose of the
Mion (as being Ultima celo, Citima territa
nearer the Earth, and holding a greater resemblance

blance therewith) are no less Manifest. And therefore the Husbandman in lowing and letting, grafting, and planting, lepping of I rees, and felling of Timber, and the like, upon good realon observes the waxing and waining of the Moon, which Learned Zanching in his Operibus Des, well allows of; commending Hefod for his rules therein Quod ex Luna deerementis er incrementis totius agricolationis signa notet, quis improbet? who can millke it that He food fees down the signs, in the whole course of Husbandry, from the waxing and waining of the Moon: the Tides and cobs of the Sea follow the course of its so exactly, as the Sea-men will tell you the age of the Moon only by the fight of the Tide as certainly, as if he saw it in the water. It is the observation of Aristotle and Pling out of him, That Or-Bers, Mussels, Cochles, Lobsters, Crabbs, &c. and generally all Shell-fish grow fuller in the increase of the Moon, but emprier in the decrease thereof. Such a strong predominancy it hath upon the Brain of Man, that Lunaticks borrow their very name from it; as also doth the Stone Selenites; whose property, as St. Augustine and Georgius Agricola records it, isto increale and decrease in Light with the Moon, carrying always the resemblance thereof with it self. Neither can it reasonably be imagined, that other Planets, and Stars, and parts of Hea-YCD,

ven are without their forcible operations upon. these lower Bodies, specially considering that the very Plants and Herbs of the Earth, which we tread upon, have their several vertues, as well fingle by themselves, as in composition with other ingredients. The Phylitian in opening of a Vein, hath ever an eye to the Sign then reigning. The Canicular Star, especially in those hotter Climates, was by the Ancients always held a dangerous Enemy to the practile of Phylick, and all kind of Evacuations. Nay, Galen himself, the Oracle of that profession, adviseth practitioners in that Att, in all their cures, to have a special regard to the reigning Constellations and Conjunctions of the Planets. But the most admirable m stery of Nature, in my Mind, is the turning of Iron touched with the Load-stone towards the North Pole; (of which I shall have occasion to liscourle more largely herealter in another Tract,) neither were it hard to add much more to that which hath been said, to shew the dependance of these Elementary Bodies upon the Heavenly: Almighty God having ordained, that the higher mould serve as intermediate Agents, or secondary Caules; but so, as in the Wheels of a Clock; though the failing of the Superiour, cannot but cause a failing in the Inferiour, yet the failing of the Inferiou; may well argue

somewhat son is self; though it cannot cause a failing in the Superiour, We have great Reafon then, as I concrive, to begin with the examination of the state of Continal Bodies, un as much as upon them the condition of the type celelial depends. Wherein five things will offer themselves to our consideration, their Subligines, their Motions their Light. their Warmth, and their Juffgence. That the Heavens are endued with some kind of Marter, though lome Philosophers in their jangling humours, have made a doubt of it, yes I think no lober and wife Christian will denyit: Bin whether the Maner of it be the same with that of these interiour Bodies, adbuc sub Judice lis est, it hath been and still is a great question among Divines... The Ancient Fathers and Doctors of the Primitive Church for the most part following Plato, hold that is agrees with the nature of the Elementary Bodies, yet lo as it is compounded of the finest flower, and choicest delicacy of the Elements: But the Schoolmer on the one file, that follow Aristorle, adhere to his Quintessence, and by no means will be beaten from it, fince, fay they If the Elements and the Heavens should agree in the lame Matter it should confequente ly follow, that there should be a mutual Traffique and Commerce, a reciprocal Action and Passion between them, which would soon draw

(12)

draw on a change, and by degrees a ruine upon those giorious Bodies. Now thought this point will never (I think) be fully and smally determined, till we come to be inhabitants of that place, whereof we dispute; (for hattly do we guels at gift at things that are upon Earth.) And with labour do we find the things that are in Heaven; who bath sear hand! but the things that are in Heaven; who bath searched out! Wist. 9: 16. Yet for the present, I should state it thus, that they agree in the same Original Matter; and surely Mosting but one Matter, (as far as I can gather from the Text) out of which all bodily substances were Created.

Ovid 1. Mitam.

pounded of the Elements, yet are they made of the same Matter that the Elements are compounded of; They are not subject to the qualities of heat, cold or drought, or more five, nor yet to weight, or lightness, which arise from those qualities, but have a Form given them, which different from the Forms of all corruptible Bodies, so as it sufferest not, nor can it suffer from any of them, being so excellent and perfect in it self, as it wholly

fariateth the appetite of the Matter Hussel. informeth. The Coelestial Bodiesthe of for ing with to noble a Form to actuate the 21, 25 not, nor cannot, in the courte of Name and lyable to any Generation or Corruption, in wy gard of their Substance; to any augmentation or diminution, in regard of their quantity ino nor any obstructive alteration in respect of their qualities and that the controverses touching the form, what is should be is no less then touching the Matter; tome holding it to be a living and a quickning Spirit, may a fenfitive and rational Soul; which epinion is stiffly maintained by many great and learned Clerks. both Jews and Gentiles, and Christians Supposing it unreasonable that the Heavens which impart life to other Bodies, flould themselves be destitute of Life: But this Errout is notably discovered and consured by Claudius Essenatus, a famous Doctor of Sorbone, in a Treatile which he purposely composed on that point de Calorum animatione; In as much, as what is denied those bodies in Life, in Sense, in Realon, is abundantly supplied in their constant and unchangeable duration, arising from that inviolable knot & indiffeluble Marriage, betwixt the Matter and the Form, which can never suffer any Divorce, but from that hand which first joyned them. And howbeit it cannot

draw on a change, and by degrees a funcupon those giorious Bodies. Now though this point will never (I think) be fully and finally detertimed, till we come to be inhabitaits of that place, whereof we dispute; (for hathly do we guels atight at things that are upon Earth.) And with labour do we find the things that are in Heaving who bath searched out? Will. 9: 16. Yet for the present. I should state it thus, that they agree in the same Original Matter; and surely Moles, methinks, seems to sayour this opinion, making but one Matter, (as far as I can gather from the Text) out of which all bodily sub-

stances were Cleated in to a serious in order of the constant of the constant

pounded of the Elements, yet are they made of the same Matter that the Elements are compounded of; They are not subject to the qualities of heat, cold, or drought, or mointuine, nor yet to weight, or lightness, which arde from those qualities, but have a Form given them, which different from the Forms of all corruptible Bodies, so as it suffered not, nor can it suffer from any of them, being so excellent and perfect in it self, as it wholly

faviates he supposite of the Matter i change informeth. The Coelestial Bodies then, merce ing with to noble a Form to, actuate them, are not, nor cannot, in the courte of Names be lyable to any Ecucration or Contuntion in regard of their Substance; to any augmentation or diminution in regard of their quantity; no nor any oblimative alteration in respect of Hope, and Charter, conducte emiliant and - Lam not ignorant that the controyer bes touching the bosm, what is should be is no less then touching the Matter ii lome holding it to be a living and a quickning Spirit, nay a sens. tive and rational Soul; which opinion is stiffly maidtained by many great and learned Clerks both Jews and Gentiles, and Christians Composing it unreasonable that the Heavens which impart life to other Bodies, should themselves be destitute of Lise: But this Errout is nordbly discovered and confuted by Claudius Espenatus, a famous Doctor of Sorbene, in a Treatile which he purposely composed on that point de Calorum animatione; In as much as what is denied those bodies in Life, in Senfe, in Realon, is abundantly supplied in their constant and unchangeable duration, arifingfrom that inviolable knot & lindilipluble Marriage, betwixt the Maissrand the Form, which can never luffen any Divorce, but from that hand which first joyued them. And howbeit it cannot

cannot be denyed, that not only the reasonable Soul of Manis bar the feelieive of the least Gnat that flies in the Air and the vegetative of the balelt Plant that springs our of the Baith, are (in that they are induct with Life) Those Divine, and nearer approaching the Fountain of Life, then the Formet of the Heavenly Bodies; yet as the Apolle speaketh of Falth, Hope, and Charity, concludes Charity to be the greatest, (though by Paith we do apprehend and apple the merits of Chrift becaufe icis more universal in operación and lasting th duration is to though the Formet of the Creatures endued with Life do in that regard, come after neater to the Deity, then the Formes of the Heavenly Bodies, which are without Life, yet if we regard their purity, their beauty, their efficacy, their indeficiency in moving, their universallity and independency in work ing, there is no question, but that the Heavens may in that respect be preferred, even before Man himself, for whose sake they were made; Man being indeed Immortal, if regard of his Soul, but the Heavens in regard of their Bodies, as being made of an incorruptible stuff.

which cannot well fland with their opinion, who held them to be composed of Fire, or the Waters, which in the first of Genesic erested to be above the Firmania, and in the hundred

hundred forty eight Pfalm, Above the Helich, are above the Heavens we now treat of, for the tempering and qualifying of their heat, as did St. Ambreso, and St. Augustine hold, and many others, venerable for their Amiquity, Learning, and Piery. Touching the former of which Opinions, we shall have fitter opportunity to discourse, when we come to Treat of the warmth caused by the Heavens. But roughing the Second, it feems to have been grounded upon a miliake of the Word Firmament. which by the Ancients was commonly abpropriated to the eighth Sphere, in which are feated the fixed States; whereas the Original Hibren (which properly fignifies Extension, Or Expansion) In the first of Genesis, is not only applied to the Spheres in which the San and Min are planted, but to the lowest Region of the Air, in which the Birds flie; and follo I with Paremand Pererus, take it to be under-Rood in this controversie. This Region of the Air being, as St. Augustine fomewhere speaks, Terminus intrunsgressibilis, a firme and irremoveable wall of seperation betwixe the waters that are bred in the bowels of the Earth. and those of the Clouds. And for the World Heaven, which is used in the hundred fortyeighth Plalm, it is likewise applied to the middie Region of the Air, by the Prophet Frency, Jer. 10. 13. Which may ferve for a Gloss upon

upon the Text alleaged out of the Plates, When he uttereth het woice, there is a noise of the paters in the Heavens, and he causeth the vapours to ascend from the ends of the Earth.

Now, the Schoolmen finding that the placing of the waters above the Starry Heavens, was both unnatural and unulciul, and yet not being well acquainted with the propriety of the Hebrew Word, to salve the matter, tell us of 2 Christaline or glassie Heaven, above the eight Sphere, which fay they, is undoubtedly the waters above the firmament, mentioned by Moses; which exposition of theirs, doth cross the course of Moses his Historical Narration, his purpole being as it seems, only to write the History of things which were visible and sensible, as appeareth in part by his omitring the Creation of Angels; whereas the Christaline Heaven they speak of, is not only invisible and insensible; but was not at all discovered to be, till the days of Hipperchus or

And as for the fresh lustre and brightness wherewith, as is commonly thought, the Heavens shall be renewed at the last day, as a girment by the turning is changed, and by changing resteshed, it may be well by the making them more resplendent then now they are or ever at any time were since their first Creation, not by the scowring of contrasted rust, but adding

ding a new gloss and augmentation of glory. And whereas some Authors have not doubted to make the spots and shadows appearing in the face of the Meon to be unredoubted arguments of that contracted rust; if those spots had not been original and native of equal date with the Moon her felt, but had been contracted by the continuance of time, as wrinkles are in the most beautiful faces, they had said somewhat, but that they were above fitteen hundred years agoe, appeareth by Plutareb's difcourse de Maculis in façie Lune; and that they have any whit since increased, it cannot be sufficiently proved. Perchance by the help of the late invented perspective-glass, they have been more clearly and distinctly discerned then in former ages, but that proves no more that they were not there before, then that the Sydera Medeas, lately discovered by the vertue of the same Instruments, were not before in being, which the discoverers themselves knew well enough they could not with any colour of reason astirm.

Stars have at times appeared in the Firmament; as some think, that was at our Saviours Birth; in as much as it appointed out the very House in which he was born, by standing over it, and was not (for ought we find) observed by the Mathematicians of those

times,

Light created in the Region of the Air, carrying the resemblance of a Star, seated in the Firmament.

As for that which appeared in Cassispas in the year One thousand five hundred and seventy two, (the very year of the great Massacre in France) I think it cannot well be gainsaid to have been a true Star, it being observed by the most skillful and famous Astronous rs of that time, to hold the same Aspect in all places in Christendom, to run the same course, to keep the same proportion, distance, and situation, every-where, and in every point, with the fixed Stars, for the space of two whole years. But this I take not to have been the effect of Nature, but the Supernatural and miraculous work of Almighty God, the first Author and free disposer of Nature. And the like may be said of all such Comets which have at any time evidently appeared, (if any such evidence can be given) to be above the Globe of the Moon.

St. Augustine in his de Civitate Dei, reports of Varro's book entituled de Gente Populi Romani; and he out of Castor, touching the Planet Venus, which to add the greater weight and credit to the relation, being somewhat strange and rare, I will set it down in the very words of Farre, as I find them quoted by St. Augustine,

in calo mirabile extitit portentuer, num in Stella Veneres nobilissima, quam Plantas wesperuginem, Homerus. Helperon appellat, pulcheringem dicent : Caffer seribit tantum portentum extitise, ut mutares coloreme, magnitudinam & figuram, uifum, quid fallem ita neque antea, neque postea sit, bon facino Ogfes Rees dicebant Adrastus, Equicanus & Dyon Neapelues, Mainematiei Nobiles, faith he, appeared a marveilous great wonder, the most noted Stat call d Venus, which Plantu calls Vesperuges and Homer Vesperus the fair, as Castor hath left upon Record, changed both colour, and bignels, figure and motion, which accident was never seen before, nor since that time; the renouned Mathematicians Adrastus and Dion averring, that this fell out during the Reign of King Ogyges; which wonder, neither Varro nor Augustine ascribe to the changeable matter of the Heavens, but to the unchangeable will of the Creator. And therefore the one calls it as we see mirabile portentum, and the other makes this Comment upon it, that it happened, quie ille voluit qui summo regit imperie ac potestate quod condidit, because he would have it so, who governs all things that he hath made, with a Soveraign independing Power. So that two special reasons may be rendred for these extraordinary unusual Apparitions in Heaven; the one that they may declare to the World that they have a Creatour and Cornmander, who C2II

can alter and destroy their Natures, restrain or suspend their operations at his pleasure, which should keep men from worshiping them as Gods, fince they cannot keep themselves from alteration. The other to portend and foreshew his Judgments, as did that new Star in Cassopaia, a most unnatural inundation of Blood in France; And this change in Venus, fuch a Deluge in Achaia, as it overflowed, and so wasted the whole Country, that for the space of Two hundred years after, it was not Inhabited. It will next fall to our task to Discover of the Eclipses, of which Virgil, in his Georg. Lib. 2. Calls,

Defectus Solis varies Luxaque Labores. Defects and travels of the Sun and Moon.

As also the manner of the Ancient Remans while such Eclipses lasted; who as Tacinus in his Annale saith, Lib. 7. Did use to lift up burning Torches towards Heaven, and withal to beat pans of Brass and Basons, as we do in following of a swarm of Bees. So Beetisu, Lib. 4. Met.

Commovet Gentes publicus Error. Lassante crebris pulsions era.

A Common Error through the world doth pass, And many a stroke they lay on pans of Brass.

And Maniliss speaking of the appearance of the Moons Eclipse by degrees, in diverse parts of the Earth, in his Lib. 1.

Seraquein extremis quationies gentibus ara.

The utmost Coasts de beat their Brass pans Last.

And Juvenal the Sattrift wittily describing a tatling Gosship in his Lib. 2. Sat. 6.

Una laberanti poterit fuscurrire Luna.

She only were enough to help The Labours of the Moon.

They thought thereby they did the Moss great ease, and besped her in her Labour; as Plutareb in his Life of Amilius observeth: Commevet That Amilie himself a wise man, as the fame

same Author there Witnesseth, did congratulate the Moons delivery from an Eceliple with a solemn Sacrifice, as foon as the thines out bright again; which action of his, that prudent Philosopher and lage Historian, doth not only relate, but approve and commendeth it as a sign of godliness and devotion; yea this Heathenilh and Sottifficultom of relieving the Moon in this case by noise and out-eries, the Christians it seems borrowed from the Genules, 28 & Ambrose expresses in his Ser. 83. And Maximus Tarrinenfir hath a Hou mile to the same purpole. Whereas Arfford. in his eighth Book of his Metaphysicks, makes it plainly to appear. That the Moon Juffereth nothing by her Ecclipse; where also he evidenceth by reason, that it is cansed by the sadow of the Earth, interpoled betwixt the San and the Moon: as in exchange or revenge thereof (as Pliny speaketh) the Ecclipse of the Sun is caused by the Interposition of the Moon, betwix: the Earth and it. The Moon to depriving the Earth; and again, the Earth; the Morn of the beams of the Sun: which is the true cause, that in the course of Nature, the Mom is never Ecclipsed but when the is Full, the Sur and She being then in opposition; nor the Sun, but when it is New Moon; those two Planers being then in Conjunction: I say, in the course of Nature; southe Ecclipse

at our Saviours Passion, was undoubtedly Supernatural: Quans folse obscurationen non ex cavenico fyderane: ourfu accidiffe fatis oftendieur, gued tune erat Pascha Judeorum, nam plena: Luna folemmiter, agitur, laith St. Angustin Lib. 3. Civie. Dei, cap. 15. It is evident, that that Ecclipse of the San happened not by an ordinary and orderly course of the Starrs, it being then the Passover of the Jove, which was solemnized at the Full Moon; And this was it, that gave occasion, às is commonly believed, to that memorable exclamation of Dennys the Erupagite, being then in Egypt, Aut Dim Natura patitur, aut Machina Musidi disolvetur; Ejther the God of Nature suffers, or the Frame of the World will be dissolved. And hereupon too, as it is thought by some, was erected the Altar at Athens, Ignote Dee, To the unknown Gul, Alt. 17.23. Though others think, that this Eclipse was confined, in the borders of Tadea; howloever it cannot be denyed, but that it was certainly besides and above the compals of Nature. Neither ought it to seem strange, That the Sun in the Firmament of Heaven should appear to suffer, when the Sun of Righteousnels indeed Suffered upon the Earth.

But for other Ecclipses, though the causes be not commonly known, yet the ignorance of them was it which caused so much Superstition

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in former Ages, and left that impression in mens minds, as even at this day, wife men cau hardly be perswaded, buethat those Planets suffer in their Ecclipses, which in the San is most childish and ridiculous to imagine; since in it self, it is not so much as deprived of any Light, nor in truth can be; it being the Fountain of Light, from which all other Starrs borrow their Light, but pay nothing back again to it, by way of retribution. Which was well expressed by Pericks, 28 Plutarch in his Life reports it, for there happening air Eccliple of the Sansatthe very instant when his Navy was ready to Lanch forth, and him: self was imbarked in his sollowers began much to be appald at it, but especially the Master of his own Gally, which Pericles perceiving, takes his Cloak, and therewith hoodwinks the Masters eyes, and then demands of him, what danger was in that, he answering none, Neither said Perieles is there in this Ecclipse; there being no difference betwixt that Vail and my Cloak, with which the Sun is covered, but only in bigness. And the truth is that the Sun then suffered no more by the intervening of the Moon, then from Perieles Cloak, or daily doth from the Clouds in the Air, which hinder the fight of it; or by the interpoling of the Planet Mercury, which hath sometimes appeared as a spot in it. But whether

whether these Ecclipses either cause or prelage any change in these insertour Bodies Pall have finer vedasson to examine heieaster; and to I pals from the Confideration of the libstance, rosthe Motion of the Heavenly Bodies. of or sloggif your deld a farmi life Anthriaris lo universal and finate a property; and forproper am affection to all Natival Bodies, diac the great Philosopher knew hee better how to define Nature, then by making horsche Engineere and Principle of Motion, and thereford as other Objects, are only difcemable by the fenfe, as colours, and foinds by hearing, Minist is discernable by both, fiay and by feeling too, which is a third fenfereally distinguished from them both. That there is in the Heavenly Bodies, no motion of Genes ration or Corruption, and of Augmentation or Diminution, or Alteration, I have altea dy shewed. There are also, by reason of the incredible swiftness of the first Mover, and some other such Reasons; dare deny, (as Courniem doth) that there is in them any Lations of Local metion, herein flatly oppoling in my judgment both Scriptute, Reason, and Sense; But take it as granted, without any dispute, that a Local motion there is; which is the mealure of Time, as Time again is the measure of Motion; the Line of Motion, and the Threat. of Time, being both spun out together: some doube

doubt there is touching the Mover of these Heavenly Bodies what or how it hould be: some ascribing it to their Matter, some to their Form, and some to their Figure, and many to the Angels, or Intelligences, as they call them, which they suppose to be set over them. For mine own parti. I should think that all these, and every one of them, might not unjustly challenge à part in that Motion: the Matter as being neither light nor heavy; the Form as well agreeing with such a Matter; the Figure as being Spherical or, Circular; the Intelligence as an assistant: in the Matter is a disposition; for where light Bodies naturally move upward, and heavy downward, that which is neither light nor heavy, is rather disposed to a Circular mution, which is neither upward nor downward. In the Figure is an inclination tothat muten, as in a Wheel to be catried round, from the Forman inchoation or onlet: and Lastly, from the intelligence, a continuance or perpetuation thereof, as that great Divine Hooker in his Ecclefiaftical policy. 69. Expresseth. (saith be,) "Geds own Eternity es is the bound which leadeth Angels in the courfe et of their perpetuity, the perpetuity the band that ce drameth out Colestial Motion; that at the Elear mintary substances are governed by the Heavenly, es so might the Heavenly by the Angelical. As 11 the Corruptible by the Incorruptible, for the Mas. gerial

ce terial by the Immeterial, and all Finites by an In-The It is the joynt consent of the Placenicks, Petipateticks, Stricks and all noted Sells of Philasophers, who acknowledg the Divine Poner with whom agree the areatest part of our Christian Doctors. That the Heavens are moved by Angels, neither is there in truth any sufficient means beside it, to discover the being of fuch Creatures by the discourse of Resignations of the Heavens chelide their Respogations, Trepidations, Li-brations, and I know not what hard Words, which the Astronomers have deviced to reconcile the diversity of their observations;) are the Diurnal Motion of the fixed States and Planets, and all the Coelestial Spices, from East to the West in the compals of the four and twenty hours, and the promotion of them all, from the well to the Motions, whether they person le Emselves, without the help of Orbis, as Fishes in the Water or Birds in the Air ; or faltned to their Spheres, as a Gemme in a Ring, for a Nail or knot in a Carr Wheele, I cannot easily determine : howbeit I confess, we cannot well imagin how one and the same body should be carryed with opposite Motions, but by the help of somewhat in which it is carryed. As the Marriner may be carryed by the Motion of his

his Ship, from the East to the Wist, and yes himself may walk from the West to the East in the same Ship: or a Flie may be carried from the North to the South upon a Cart-Wheel, and yet may go from the South to the Marib upon the same Wheele; but howsoever it be, it is evident, that their Motions are even and regular, without the least jarror discord, variation or uncertainty, languishing or desect that may be; which were it not so, there could be no certain demonstrations made upon the Globe or Material Sphere which notwithstanding, by the Testimony of Claudian, are most infallible, as appears by those his elegant Verles upon Archimedes admitable invention thereof.

Jupin parvo cum cerneret etbera vitre. Rift ad Juperos taliadista dedit : Hucci d'salir progressa potentia cura? Jam with fragili luditur Orbe labor Jura Poli, rerumg, fidem legela; Deorum Ecce Syracufus eranstulit arte Senex. Inclusur varis famulatur spiritus aftrie Percurrit propriums mentitus signiser annum Et simulatis novo Cynthia mense redit. Famq; faum volvens audaz industria Mundum Gaudet & Humana Stera mense regit.

When Jove within a little glass survaid

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The Heavens, he smil'd, and to the Gods thus faid; Can strength of Montal Witt proceed. thus far? Loe in a fraile Orbe my works matched arc. Hither the Syracusans art Teanslates Heavens form, the course of things, and human fates. The included Spirit serving the Star deck. ed figues, The living Work in constant Motion windes. Th' adulterate Zedick runt a Natural And Cynthias forg'd horns monthly new light bear, Viewing her own world; now bold industry Triumphes and rules with human power the skie.

The Gentiles saith Julian (Als Cyril in his third. Book against him, reports it) Frolentes nibil eorum que circa calam minus vel augere neque ullam: sustinere de vrdinatum affectionem, sed congruam illieu motionem ac bene optatam ordinem; definitas queque leges Luna, definites ortus & occasus folis, statutis semper temporibus, merito Denne & Der solium suspicabantur. Seeing

Sceing no part of Heaven to be diminished and decreased, to suffer no irregular affection, but the Motion thereof, to be as duly and as orderly persormed as could be defired, the waxing and waining of the Moon, the riling and serting of the Sur to be setled and constant at fixed and certain times; they deservedly adraired it as God, or as the Throne of God. The order and Regulation of which Motions we hall easily perceive by taking a particular view of them. I will touch only those of the Planets. The proper Motion of Saturn was by the Ancients obletved, and is now likewife found by our Modern Astronomers, to be accomplished within the space of thirty years, that of Jupiter in twelve, that of Mars in two, that of the Sun in Three hundred fixty and five dayes and almost six hours: neither do we find that they have quickned or any way flackned these their courses, but that in the same space of time they always run the same races they have passed. These then are the bounds and limits to which these glorious Bodies are perpetually tyed, in regard of their Motion; thele be the unchangeable Laws, like those of the Medes and Persiant, whereof the Psalmist speaks. He barb given them a Law which shall not be broken, Pfal. 148.6. Which Seneca in his Book De divina providentia, well expresses in other words, Eterna legis impe-

rio procedure, they move by the appointment of an eternal Eaw, that is, a Law both invarie able and inviolable. That which Tully hath delivered of one of them, is undoubtedly true of all ! Suturni Stella in fue vursu multa miracula efficiens, tum ante edende, lum retardande, tum vespertinte temperibus delitesende, tute matutinis rarsum se aperiende, nibil tamen immutat sempiternie faculerum etatibus, quam eadem enflem temperibus efficiat, Lib. 2. de nat. Deer. The Planet Saturn doth make strange and wonderful passages in his Motion, going before, and sometimes coming after, withdrawing himfelf in the Evening, and sometimes again shewing himself in the Morning, and changeth himself nothing in the continual duration of ages; but still at the same season worketh the same effects. And in truth, were it not so, both in the Planet and in all other Starrs, it is altogether impossible that they should supply that use which Almighty God in their Creation ordained them unto, that is, To ferve for Signs and Seafens, for dayes and for years to the Worlds end, Gen. 1. 14. And much more impossible it were, that the year, the month, the day, the hour, the minute of the oppositions, the Conjunctions and Ecclipses of the Planets, should be as exactly calculated and foretold One hundred years before they fell out, as at what hour the Sun will rife to morrow morning. To which

which perpetual equability and constant uniformity in the Coelestial Motions, the Divins Plate accords, Necessary, necessary antiquation, Plate accords, Necessary, necessary antiquation of the revoluntar, Neither do they run at random, nor are they rolled beyond their ancient order. Aristotle in his Book De Mundo, breaketh out in this pallionate admiration thereof, Quod nunquam potent aquari calest ordini, o volubilitati, cam sylera convertantur exaltistica norma de alioin alias seculum. What can ever be compared to the order of the Heaven's, and to the Motion of the Starrs in their several Revolutions, which move most exactly by a rule or square, by line and level from one Generation to another.

There were among the Ancients not a few, nor they unlearned, who by a strong fancie conceived to themselves an excellent melody made up by the motion of the Coelestial Spheers; it was broached by Pythagoras, entertained by Plate, and stiffy maintain'd by Macrebrius, and some other Christians, as Bede, Beeting, and Anselm Bishop of Canterbury: But Aristeile puts it off with a jest in his Lib. 2. de Calo Cap. 9. as being Lepide & Musice dictum. fattis autem impifibile, a pleasant and Musical conceit, but in Effect impossible; in as much as those bodies in their Motion make no noise at all. Howsoever it may well be that this conceit of theirs was grounded upon a certain truth.

truth, which is the Harmonical and Proportionable Motion of those Bosies in their just order, and fre courses, a sif they were ever dancing the counds and the Measures. In which regard the Pfaintift telisus, That the San knoweth bus going down, he appeinter habe Meon for seasons, Plat. 104, 19. Whith words of his may not be taken inde proper, bud inia figuracive seuce; the Prophersherefore implying, that the Sim observerh his prescribed Mouon so precisely to a point, that in the least jotshe never erreth from its wand therefore he is faid to sho the fame upon knowledg and understanding, Non quod animatus fin aut ratione bietur. laith Bufil upon the place, Sed qued juxta terminum divinitus preferiptum ingrediens, sempen eurdem curfas fetwat, as menfuras fuas custodit ... Noe charrethe Sun hath any South or use of understanding; but because he keepeth his courses and measures exactly according to Gods prescription. But the Motion of the Heavens puts me in mind of palling from it to the Light thereof. As the Waters were first spread over the face of the Earth. So was the Light dilpersed throughthe Firmament: and as the Waters were gathered into one heape, so was the Light knit up, and united into one body: as the gathering of the Waters was called the Sea, so that of the Light was called the Sun. As the Rivers come from the Sea, lois all the Light

Light of the Stars derived from the Sun; and lastly, as the Sea is no whit lessened, though is furnish the Earth with abundance of fresh Rivers: So though the Sun have fince the Creation, both furnished, and garnified the World with Light, neither is the store of itthereby deminished, nor the beauty of it any way stained. What the Light is, whether of a corporeal or incorporeal Nature, it is not easie to determine. Philosophers dispateir, but cannot well resolve it. Such is our ignorance, that even that by Awhich we see all things, we cannot discern what it self is. But what soever it be, we are sure that of all visible Creatures, it was the first that was made, and comes nearest the name of a Spiritin as much as it moveth in an instant from the End to the West, and piercing through all transparent Bodies, and Itill remains in it self ummixed and undivided; it chaseth away fad and melancholy thoughts, which the Darknels both begets and maintains; it lifts up our minds in meditation to him that is the true Light, that Lightneth every manthat cometh into the World, himself dwelling in Light in accessible, and cloathing himself with Light as with a Garment. And if we may behold in any one Creature any spark of that Eternal Fire, or any farr-off dawning of Gods brightness, the same in the beauty and vertue of this Light may be

best discerned Quid puleberrimus Luce, faith Hugo de santed set bre, qua cum in se colorem non babeat, omninm tamen rerum colores ipfa quodamindo colorat. What is more beautiful then Light, which having no colour in it felf, yet fets a lustre upon all Colours? And St. Ambrofe, Unde Vez Die it Scriptura debuit inchoare hist a Lumine? ande Mundi ornaties auft a Luce extraiams sumere & frustra enim esset si non videretur. From whence hould the voice of God in holy Scripturc begin, but likewise from the same Light; fot in vain it were, were it not seen, as Bartas excellently Expresseth.

O Father of the Light, of wisedom Fountain,

Out of the Bulk of that confused Mountain.

What should, what could issue before the Light.

Without which, Beauty were no beauty hight. Tell

S. Augustine in divers places of his works is of opinion, That by the first Created Light, we understood the Angels, and herein is he followed by Beds Eucherius, and Rupertses, and divers others; which opinion of his, though it be questionlets unsound, in as much as we are taught, That the Light forung out of Dark-

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ness, 2 Cer. 4. 6. Which of the Angels can in no sort be verified, yet it shews the lightsome nature of Angels; so likewise the Angelicalnature of Light still flourishing in youth, and is no more subject to decay then the Angels are. They who maintain, that the Soul of Man is derived ex traduce, hold withall that the Father in begetting the sons Soul looses none of his own, it being tanquam Lumen de Lumine, as one Light from another: nay, more then so, it is the very resemblance that the Nicene Fathers thought not unmeet to express the unexpressible Generation of the second Person in the Trinity from the First; who is therefore termed by the Apostle The brightness of bis Glory, Heb. 1.3. As then the Father of the Communicating of his Substance to his Son, looles none of his own; so the Sun by Communicating of his Light to the World, looses no part nor degree thereof. Some things there are of that nature, as they may be both given and keptias Knowledg and Vertue, and Hapriness, and Light, which in Holy Scripture is Figuratively taken for them all. Whether the same Individual Light, be still resident in the body of the Sun, which was planted in it at the first Creation; or whether it continue empty and spend it self, and so I ke a River be repared with fresh supplies, for my part, I cannot certainly affirm, though Imuit

I must consels, I do rather incline to the former: But this I believe, as the body of the Sun is no whit lessened in extention, so neither is the Light thereof in intention: Men being now no more able to fix their eyes upon it, when it shines forth in its sull strength, then they were at the first Creation of it. Now we have spoken of the Light, we shall next discourse of the warmth and influence thereof, which springs from it, which now succede in their order.

The Light of Heaven, of which we have spoken, is not more comfortable and useful, then is the warmth thereof; with a!Masculine vertue it quickens all kind of Seeds, it makes them Vegitate, blossom and fructifie, and brings their Fruit to Persection, for the use of Man and Beast, and the perpetuating of their own kindness; nay, it wonderfully refresherh and chears up the Spirits of Men, Beasts, Birds, and creeping things; and not only imparts the life of Vegitation, but of Scale and Motion, to many thousand Creatures, and like a tender Parent fosters and cherisheth it being imparted. Some there are that live without the light of Heaven, searching into and working upon those Bodies which the Light eannor pierce, but none without the warmth, it being in nature the universal institument thereof, which made the Psalmist say, That there is noshing bid from the beat of the Sun. Few things are hid from the Light, but from the Heat

the reof nothing.

I am not ignorant that St. Angustine, St. Basil, St. Ambrose, and many Divines, held that there were Waters, properly so termed, above the Starry Firmament; who held withal, that the Sun and Starrs cause heat as being of a fiery Nature; those waters being set there, in their Opinion, for the cooling of that heat, which Opinion of theirs leems to be favoured by Syracides in the forty third of Ecclesiasticus, where he thus speaks of the Sun, At noon it parcheth the Country, and who can abide the burning heat thereof. A man blowing a Furnace is in works of heat : but the Sun bu neth the Mountains three times more, breathing out siery vapours. Neither were there wanting some among the Ancient Pailosophers, who maintained the same Opinion, as Plato and Pliny, and generally the whole Sect of Stocks, who held that the Sunand the Starrs were fed with watery vapours, which they drew up for their nourishment, and that when the vapours should cease and fail, the whole world should be in danger of combustion; and many things are alledged by Balbo in Cicero's Second Book of the Nature of the Gods, in savour of this Opinion of the Stoick. But that the Sun and Starts are not in truth fiery and hor, appears by the ground already

already laid touching the matter of the H:avens, that it is of a nature incorruptible, which cannot be if it were fiery, in as much as thereby it would become lyable to alteration and corruption by an opposite and professed encmy: besides, all fiery bodies by a natural inclination mount upwards, so that if the Starrs were the cause of heat, as being hot in themselves, it would consequently follows that their circular Motion should not be natural but violent: Whereunto I may adde, the noted Starrs being so many in number, namely, One thousand twenty and two, besides the Planets, and in Magnitude so great, that every one of those, which appear fixed in the Firmament, are said to be much begger then the whole Globe of the Water and Earth; and the Sun again so much to exceed both that Globe, and the biggest of them, as it may justly be stilled by the Son of Syrac, Instrumentum admirabile, A wonderful instrument, Ecclesiast. 43. 1. Which being so, were they of fire, they would doubtless long erethis have turned the World into astes, there being so infinite a disproportion betwixt their flame, and the little quantity of matter supposed to be prepared for their Fewel. That therefore they should be fed with vapours, Aristotle descreedly laughs at it, as a childish and ridiculous device, in as much as the vaz:uoq

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pours ascend no higher then the middle Region of the Air, and then distill again upon the Water and the Earth from whence they were drawn up; and those varours being uncertainsche flames likewise seeding upon them must needs be uncertain, and daily vary from themselves both in quantity and figure, according to the proportion of their Fewel.

The absurdity then of this Opinion being so foule and gross, it remains that the Sun and S'arrs insuse a warmth into these Subcœleltial Bodies, as not being hot in themselves, but only, as being ordained by God to bread heat in matter capable thereof, as they impart life to some Creatures, and yet, them= selves remain void of life, like the brain which imparts sense to every Member of the Body, and yet is it self uiterly void of sense. But here again, some there are which attribute this effect to the Motion, others to the Light of these glorious Bodies: And true indeed it is, that Motion causes Heat, by the attenuation and rarefaction of the Air; But by this reason should the Moon, which is nearer the Earth, warm more than the Sun which is mapy thousand miles sarther distant? and the higher Regions of the Air, should be always hotter than the lower, which notwithstanding if we compare the second with the lowell, is undoubtedly false. Moreover the Motion

of the Coelestial Bodies being unisorm, so should the heat in reason derived from them likewife be; and the Motion cealing, the Heat should likewise; and yet I shall never believe, that when the Sun stood still at the Prayer of Tofhue, it then ceased to warm these Interiour Bodies. And we find by experience, that the Sun works more powerfully upon a Body which stands still then when it moves, and the reason seems to be the same in the rest or Motion of a Body warming or warmed, that re-

ceiveth or imparteth hear.

The Motion being thus excluded from being the cause of this Effect, the Light must of necessity step in, and challenge it to its self; the Light thenit is which is the cause undoubtedly of Coelestial hear, in part by a direct beam, but more vehemently by a reflexed: for which very reason it is that the middle Region of the Air is always colder then the lowest, and the lowest hotter in the Summer then in the Winter, and at Noon then in the Morning and Evening, the beams being then more: Perpendicular, and consequently in their reflection more narrowly united, by which reflexion and union, they grow sometimes to that fervency of heat, that fire springs out from them as we see in Burning-glasses; And by this attificial device it was that Archimedes, as Galen reports it in his third Book De temperament is

peramentis, Cap. 1. Set on fire the Empersurs Ships: and Preelus a famous Mashimatician, practiled the like at Confiantinople, as witnesseth Zonarus in the life of Anastatius the Emperour. And very reasonable methinks it is, That Light, the most Divine Affection of the Coelestial Bodies, should be the cause of warmth; the most noble active and excellent quality of the Subcoelestial. These two like Hippocrates Twins, Simul orientur of moriumum, they are born and dye together, they increase and decrease both together; the greater the Light is, the greater the Heat; and therefore the Sun as much exceeds the other Starrs in Heat, as it doth in Light.

The Suns continual Declination, or nearer approach to the Earth, is rather an idle Dream than a found position, grounded rather upon the difference amongst Astronomers, arising from the difficulty of their observations, then upon any certain or infallible conclusion. Prolomy, who lived about the year of Christ one hundred and forty, makes the distance of the Sun to be from the Earth, One thousand two hundred and ten Semidiamerers of the Earth. Albategniss, about the year Eight hundred and eighty, makes it One thousand one hundred and forty six. Coperniens, about the year One thousand five hundred and twenty, makes it One thousand five hundred and seventy nine. Tycobrabe.

Trabrehe, about the year One thousand fix hundred makes it One thousand one hundred eighty two. Now I would demand whether the Sun were more remove in Prolomies time, and nearer in the time of Albategning and then again, more remote in the latter ages of Copernicus and Tyckobrabe? which it it were for then one of these two must needs follow, that either these observations were not grounded upon so certain Principles as they pretend, or that the declination of the Sun is uncertain or variable, not constant and perpetual, as is pretended. But what would Bodwin say, if he lived, to hear Lansbergius and Kepler, and ther famous Astronomers of the latter times, teaching that the Sun is now remote above Two thousand and eight hundred, nay three thousand Semidiameters from the Earth; affirming, that Copernicus and Tycobrabe neglected to allow for refractions, which (as the Opticks will demonstrate) do much alter the case.

I will close up this point with the censure of Scaliger in his Exercit. 99. upon the Patrons of this lancy, Qua vero nonnulli prodere ausis sunt, solis corpus longe proprius nos este, quam quantum ab Antiquis scriptum sit, ita ut in ipsa deserentis corputentia beum mutasse videatur, vel is sa scripta spongiis, vel ipsi Authores scuticis sunt castigandi. In as much as some have dated to broach, that

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the body of the Sun is nearer the Earth then by the Ancients was observed to be, so that it might seem to have changed place in the very bulk of the Sphear; either the Authors of this Opinion deserve themselves to be chastened with stripes, or surely their Writings to be

razed with Sponges.

So that (as I conceive) it may fitly and safely be inserred, first, that either there is no such removal at all of the Sun, (as is supposed) or if there be, as we who are situate more Northerly, seel perhaps the effects of the defects of the warmth thereof, in the unkindly ripening of our fruits or the like; so, likewise by the rule of Proportion, must it needs follow, that they who lye in the same distance from the South Pole, as we from the North, should enjoy the benefit of the nearer approach thereof; and they who dwell in the hotest Climates interjacent, of the abating of the immoderate servency of their heat: From hence I again infer, that supposing a mutability in the Suns greatest Declination, look what dammage we suffer by his surther removal from us in the Summer, is at least in part recompenced by his nearer approach in Winter, and by his Periodical Revolutions fully restored. And so I pass from the Consideration of the warmth, to those hidden and secret qualities of the Heavens, which to Astrongmers Astronomers and Philosophers are known by the name of Influences.

Howbeit Ariffotle thorow all those Works: of his which are come to our hands; to my remembrance, hath not once vouchlased-so. much as to take notice of such qualities, which, we call Influences; and though amongst the Ancients Averroer and Avicenne, and amongst some of the latter times Picus Mirandula, and Georgins Agricola, seek to disprove them : yet both Scripture, and Reason, and the weighty. Authority of many good Schollars, as well Christians as Ethnicks, have fully resolved me that such there are. They are by Philosophers, distinguished into two Ranks; the First is that Influence which is derived from the Empyreal. Immoveable Heaven, the Pallas and Mansion House of Glorifyed Saints and Angels; which is gathered from the diversity of Effects as well in regard of Plants, as of Beasts, and other Commodities under the same Climate, within the same Tract and Latitude, equally distant from both the Poles, which we cannot well or ginally refer to the inbred nature of the soile, since the Author of Nature hath so ordained, that the temper of the Inferiour Bodies should ordinarily depend upon the Superiour 3 nor yet the Aspect of the moveable Spheres and Starrs, since every part of the sameClimate, successively, but equally enjoyes:

the

the same Aspect: It remains then, that these Effects be finally reduced to some Superiour immoveable cause; which can be none other then that Empfreal Heaven; neither can'it produce these essess by means of the Light alone, which is uniformly dispersed through the whole, but by some secret quality which is diversified according to the divers parts thereof; and without this, we should not only find wanting that connexion and unity of order, in the parts of the World, which make it so comly, but withal should be forced to make one of the worthiest preces of it voidof Action, the chief end of every Created thing. Neither can this Action mil-bescem the worthinels of so glorious a piece, since both the Creatour is still busied in the works of Providence, and the Inhabitants in the works of Ministration.

The other kind is that which is derived from the Starrs, the Aspect of several Constitutions, the Opposition and Conjunction of the Planets, and the like. These we have warranted by the mouth of God himself, in Job 28. 31. according to our last and most exact Translation; Canst thou bind the sweet Institutes of the Pleiades, or loose the bands of Orion? canst thou bring forth Mazoreth in his season? or canst thou guide Arcturus with his Sons? know st thou the Ordinances of Heaven? canst thou

fet the dominion thereof in the Earth? where by the Ordinances of Heaven, it may be thought is meant, the course and order of these hidden qualities, which without Divine and Supernatural Revelation, can never perfectly be known to any mortal Creature.

Besides as Sr. Walter Raleigh hath well and truly observed, it cannot be doubted, but the Starrs are Instruments of lar greater use, then to givean obfeure Light, and for men only to gaze at after Sun set: it being manifest that the diversity of Scasons, the Winters and Sumimers, more hot or cold, more dry or wet, are not so uncertained by the Sun and Moon alone, who alwayes keep one and the same Course, but that the Starrs have also their working therein, as also in producing of several kinds of Mettals and Minerals in the bowels of the Earth, where neither Light nor Heat can pierce. For as Meat pierces where Light cannot, so the Influence pierces where the Heat cannot.

Moreover, if we cannot deny, but that God hath given Vertues to Springs and Fountains, to the cold Earth, to Plants, to Stones, and Minerals, nay to the excremental parts of the basest living Creatures; why should we rob the beautiful Stars of their working Powers? for seeing they are many in number, and of eminent beauty and Magnitude, we

may

may not think, in the Treasury of his Wildom who is Infinite, there can be wanting; even for every Star, a peculiar Vertue and Operation: As every Herb, Plant, Fruit, and Flows er, adorning the face of the Earth, hath the like. As then these were not Created to beautifie the Eatth alone, or to cover and shaddow her dusty face; but otherwise, for theuse of Man and Beast, to feed them and cure them: lo were not those incomparably glorious Bodies set in the Firmament, to none other end then to adorn it, but for Ibstruments and Organs of his Divine Providence, and Power, so far as it hath pleased his just Will for to determine; which Barras admirably expresseth,

> I'le ne'r believe, that the Archi-Architett.

With all these Fires the Heavenly Arches deckt

Only for shew, and with these glistering Shields

T'amaze poor Shepheards watching in the Fields.

I'le ne'r believe, that the least Power that pranks

Our Golden Bordeis, or the common Banks,

And the left Stone that in her warming lap,

Our kind nurse Earth, coverously doeh

wrap,

a des de la litera de

Hath some peculiar Vertue of its own, And that the Glorious Starrs of Heaven have none.

But shine in vaine, and have no charge

precise.

But to be walking in Heavens Galleries:

And through that Pallace up and down

to Clamber,

Asgolden Guls about a Princes Chamber.

But how far it hath pleased God in his Divine Wildom to determine of these Influences; it is hard, I confess, to be determined by any human Knowledg.

For if in the peculiar vertues of Herbs and Plants, which our selves sow and set, and which grow under our feet, and we daily apply to our several uses, we are notwithstanding in effect ignorant, much more in the Powers and workings of the Cœlestial Bodies. For (as to this purpose we said before) Hardly do we guess at the things that are on the Earth, and with labour do we find the things that

are before us: but the things which are in Heaven who bath searched out? Wild. 9. 16. It cannot well be denyed, but that they are not Signes only, but at least wise concurrent Causes of immoderate cold or heat, drought, or moisture, lightning, thunder, raging winds, Inundations, Earthquakes, and confequently of Famine and Pestilence; yet such cross accidents may and often do fall out, in the matter upon which they work, that the Prognostication of these casual Events, by the most skillful Astronomere, is very uncertain: And for the common Alminacks, a man by observation shall easily find, that the contrary to

their Predictions is commonly truest.

Now for the things which rest in the liberty of Mans Will, the Starrs have doubtless no power over them, except it be led by the lensitive appetite, and that again stirred up by the constitution and complexion of the body, as too often it is, specially when the humours of the Body arestrong to assault, and the Vertues of the Mind weak to resist. If they have dominion over Beasts, what shall we judge of Men, who differ little from Beafts? I cannot tell, but fure I am, that though the Starrs incline a Man to this or that course of life, they do but incline, inforce they cannot: Education and Reason, and most of all Religion, may alter and over-master that Inclination,

nation, as they may produce a clean contrary Effect. It was to this purpole, a good and Memorable speech of Cardinal Pools, who being certified by one of his acquaintance, who professed the knowledg of these secret favours of the Starrs, that he should be raised and advanced to a great Calling in the World; made answer, that whatsoever was portended by the figure of his birth, for natural Generation, was cancelled and altered by the grace of his second Birth, or Regeneration in the Blood

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of his Redeemer.

Again, we may not forget that Almighty God created the Starrs, as he did the rest of the Universal, whose secret Influences may be called his reserved and unwritten Laws. which by his Prerogative Royal he may put in execution, or dispense with at his pleasure. For were the strength of the Starrs such as God hath quitted unto them, all Dominion over his Creatures, that Petition in the Lords Prayer, Lead sis not into Temptation, but deliver six from Evil, had been none other but a vain expence of words and time. Nay, be he Pagas of Christian that so believeth, the only true God of the one, and the imaginary God of the other, would thereby be despoyled of all worship, reverence, and respect.

As therefore I do not consent with them who would make those glorious Creatures of

God vertuless; so I think that we derogate from his Eternal and Absolute Power, to ascribe to them the Dominion over our Immortal Souls, which they have over our Bodily Substances, and perishable Natures. For the Souls of Men loving and fearing God, receive Influence from that Divine Light it selfwhereof the Suns Clarity and that of the States is by Plato called but a shadow, Lumen of Umbra Dei, & Dens of Lumen Luminis, Light is the shadow of Gods brightness, who is the Light of Lights.

There have been great talks touching the Conjunction of Sainra and Jupiter, and many ominous conjectures are cast abroad upon it, which if perhaps they prove true, I should rather ascribe it to our sins, then to the Stars; they were not created to govern, but to ferve Man, if he serve and be governed by his Creatour: so that we need not to search the Cause so far off in the book of Heaven, we may find it written nearer home in our own Bosomes: And for the Stars, I may say, as our Saviour Christ doth the Sabboth, the Stars were made for Men, and not Men for the Stars; and if God be on our fide, and we on his, fupiter, and Saturn shall never hurt us. But whatsoever the force of the States be, upon the persons of private Men, or the Stars of Wealpublicks. I should rather advise a modest ignorance **[22**]

norance therein; then! a durious inquisition hereinto, following the witty and pithy counsel of Phivorism the Philosopher in Gelling, Libed. Selle i. where he thus speaks, Ane adver la eughicura dicurt, ant:prospera : fi dicurt prospenast fallunt, miser fice frustra expella di, & % adversa dieunt exmentiuntur; miser sies frustra temendo: se vera respondent, eaque sunt non prospera, jem inde ex unima miser fiet accequam è fate fias; s falicia promitiunt eaque eventura sunt, tum plane dud est um inapomoda, & expectacio te spe fuspersum fatigabit, & futurum gaudii fructum spes tibi defleraveric. Eitheraliey portend or bad or good luck, if good, and they deceive, thou will become miserable by a vain expestation; it bad, and they lye, thou wilt be milerable by a vain tear; if they tell thee time, but unfortunate Events, thou wilt be miserable in mind before thou art by delliny; if they promife fortunate success, which shall indeed come to pals, these two inconveniences will follow thereupon both expectation by hope will hold thee in suspence, and hope will defloure and devoure the fruit of thy content. His conclusion is, which is also mine for this point and this discourse touching the Heavenly Bodies; Nulle ig tur paulo utenaum est istinsmodi hminibus res suturas prasagientibus: We ought in no case to have recourse to these kind of Men, which undertake the foretelling of careful

ful Events. And so I pals from the conside? ration of the Coelestial Bodies, to the Subcoelestial, which by Gods ordinance depend upon them, and are made subordinate to them; touching which and the Coelestial Bodies both together, comparing each with the other, the Divine Barras thus Iweetly and truly fings;

> Things that confift of th' Elements uniting,

> Are ever tost with an intestine fighting,

> Whence spring in time their Life and their deceasing.

> Their diverse change, their waxing and decreasing.

> So that, of all that is, or may be seen With Mortal Eyes, under Nights horned Queen,

> Nothing retaineth the same form and face.

Hardly the half of half an hours space.

But the Heavens seel not Fates impartiall rigour,

Years adde not to their Stature nor their Vigour:

Ule weares them not, but their green ever age,

Is all in all still like their pupillage. Sublunary

Sublunary Bodies are such as God and Nature hath planted finder the Moon. Now the state of these Inferiour being governed by the Superiour: as in the Wheels of a Clock or Watch, if the first be out of order, so are the second and third, and the rest that are moved by it; for it is more then probable that the fift partake with them in the same condition; which dependance is very well expressed by Beethius, where having spoken of the constant regularity of the Heavenly Bodies, de Consol. Lib. 4. Met. 6. He thus gots On.

> Hec concordia temperat aquis, &C. Thus Englished,

The Concord tempers equally Contrary Elements, That moist things yield unto the dry, And heat with cold conferts; Here Fire to highest place doth slies

And Earth doth downward bend, And Flowery Spring perpetually Sweet odours forth doth fen!

Hot Summer Harvest gives, and store Of Fruit Autumnus vields,

And shoures which down from Heaven do pourc,

Each Winter drown'd the Fields:

What

What ever in the World doth breath. This temper forth hath brought, And nourished: the same by Death Again it brings to nought.

Among the Subceelestial things following Natures Method, I will first begin with the consideration of the Elements, the most simple and Universal of them all, as being the Ingredients of all mixed Bodies, either in the whole or in part, and into which the mixed are finally resolved again, and are again by turnes remade of them, the common matter of them all still abiding the same: of which BBErts, The state of the s

> Here's nothing constant, nothing still doth Stay 5

> For Birth and Death have still successive fway:

> Here one thing springs not till another dve.

Only the Maker lives Immortally. The Almighty Stable, Body of this all, (Of changeful chances common Arce-

All like it self, all in it self, contain d Which by times flight hath neither lost

nor gain'd) Changeles in Essence, changeable in

Much more then Protest or the subul race Transform them hourly on the waving Shore; Much like the French, or like our selves Their Apes)
Who with strange habits do difguise

their shapes, Who loving novels full of affectation; Receive the manners of each other Naas dry and m the For a noit.

By consent of Antiguity the Elements are in Number sour, The Fire, the Air, the Was ter, and the Earth, of which the same Poet thus expresses himself:

> Four Bodies Primitive the World still Contains 5

> Of which, two downwards bend, the Earth and Watery planes.

> Asmany weight do want, and nothing forcing, higher

> They mount th' Air, and purer streams of Fire.

> Which though they distant be, yet all things from them take

> Their Birth, and into them their last returus do make. Three

Three of them shew themselves manifestly in Milk, the Butter being the Aerial part thereof, the Why the Watery, and the Cheefe the Earthy: but all four in the burning of green Wood, The Flame being Fire, the smoak the Air, the Liquid destilling at the ends the Water, and the Askes the Earth. Philosophy likewise by reason teaches and proves the same, from their Motion upwards and downwards, from their second qualities of lightness and heaviness, and from their first qualities, either Active as heat and cold, or Passive as dry and moist. For as their Motion proceeds from the second qualities, so do their second from their first from the Heavenly Bodies, next to which, as being the Noblest of them all, as well in purity as activity, is seated the Element of the Fire (though many of the Ancients, and some later Writers, as namely Cardane, (amongst the rest) seemed to make a doubt of it, Lib. 1. Subtil. And Marilim in his first Book of Astrosemy.

> Ignis ad asbereas volucer se sustait auras Summaque complexas Stellantis calmina Cali, Flammarum vallo Natura Maxia secit,

The Fire est soones up towards Heaven did five.

And compassing the Starry World, ad-

A wall of Flames to safeguard Nature

Next the Fire, is sessed the Air, divided into Three Regions, next the Air the Water, and next the Water the Earth; so Bartas,

Who so (sometime) hath seen rich in-

Where forc't by Fire their Treasure they divide:

(How fair and softly Gold to Gold doth

Silver seeks Silver, Brass conforts with Brass.

And the whole lump, of parts unequal, fevers

It self apart, in white, red, yellow Rivers)

May understand how, when the mouth Divine

Open'd to each his proper place t' affign)

Fire flew to Fire, Water to Water slid, Airclung to Air, and Earth with Earth abid,

The

The Vail both of the Tabernakle and Temple, were made of Blew, and Purple, and Scarler, or Crimlon, and fine twifted Linnen: by which four as folephus noteth, were represented the four, Elements; Lib. Antiquit, 15. Cap. 14. His words are thele: Value bor tras Babilomum variegatum, ex Hyacintho, & byfo, cerecque & purpura, mirabiliter elaboratum, non indigname consemplatione materia commistionem habent, fed velut emninm imaginem praferent, Cocce enim vidibatur sgnem imitari, G. By Jo terram, & Hyacintho asrem, ac Mare purpura, parties quidem coloribus, koffo autem & purpura Origine, boffo quidem quia de terra, Mare autem purpura gignut. The Vaile was Babilonifa Work, most arrificially imbrodered with Blew, and fine Linnen, and Scarlet, and Purple, having in it a mixture of things not unworthy of our Consideration, but carrying a kind of refemblance of the Universe, for by the Scarlet, scemed the Fire to be represented; by the Linnen the Earth. by the Blew the Air, and by the Purple the Sex; partly by reason the Colours of Scarlet and Blew, parrly by reason of the Original of. Linen and Purple, the opecoming from the Earth, the other from the Sea. And Se. Hierom in his Epistle to Fabula, Episte 128. hath the very lame conceit, borrowed, as it feems, from Josephses, or from Philo, who hath much to the like purpose, in his Third Book

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of thalife of Maken or it may be from Willia 18. 14. In the long Robe was the whole World: As not only the Vulgar Latin, and Arias Montanous, but out of them and the Greek Original, our last English Translation reads it.

The Fire is dry and hou, the Air hot and moist, the Water moist and cold, the Earth cold and dry & thus are they linked, and thus do they embrace one another with their Simbolizing qualities, the Earth being linked to the Water by coldness, the Water to the Air by molfinels, the Air to the Fire by warmth, the Fire to the Earth by drought: which are alkahe combinations of the qualities that can possibly be; hor and cold, as also dry and moist, in the highest Degrees, being altogether incompatible in the same subject: and though the Earth and the Fire are most oppolite in distance, to lubstance, and in activity, yet they agree in one quality, the two middle being therein directly contrary to the two extreams, Air to Earth, and Water to Fire. These four then, as they were from the beginning, so still they remain the Radical' and Fundamental Principles of all Subcoleftial Bodies; distinguished by their several

and Ancient Situations, Properties, Actions, and Effects; and howloever after their old wont they fight and combate together, being single, yet in composition they still accord

mar-

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marvellous well, as Beething Lib. 3. Ma. 9.

Tu numeris Elementa ligne, un frigera fiammis, Arida convenient Liquidis, ne purier iguis Evelet, ant mersas deducant pondera terras.

To Numbers thou the Elements dost

tie
That cold with heat may symbolize, and
dry
With moist, lest purer Fire should soare
to high,
And Earth through too much weight
too low should lie.

The Creator of them hath bound them, as it were, to their behaviour, and made them in every mixed body to stoop and obey one Prædominant, whose sway and conduct they willingly follow. The Air being Prædominant in some, as in Oyl, which alwayes swimmes on the top of all other Liquors; and the Earth in others, which always gather as near the Center as possibly they can. And as in these, they vary not a jot from their nature and wonted properties; so neither do they in their other conditions. It is still true of them, that Nee gravitant nee bevitant in said to see, there is no sense of their weight or lighter.

nels in their proper places, as appears by this, that a Man lying in the bottom of the deepest Ocean, he feels no burthen from the weight thereof; the Fire shall serve to warm us, the Air to maintain our breathing, the Water to cleanse and refresh us, the Earth to feed and support us, and which of them is most necellary for our ule is hard to determine: Likewise they still hold the same proportion one towards another, as they have done. For howbeit the Peripereticks, pretending herein the Authority of their Mr. Aristotle, tell us, that'as they rile above one another in Situation, so they exceed one another propertiene decupla, by a ten-fold proportion; yet is this doubtless a soul Errour, or at least-wise a gross mistake, whether we regard their entire bodies, or their parts? if their entire bodies, it is certain, that the Earth exceeds both the Water and the Air by many degrees: the depth of the Waters not exceeding two or three miles, and for the most part not above halfe a mile, as Marriners find by their Line and Plummer, whereas the Diameter of the Earth, as Mathematicians demonstrate, exceeds Seven thousand miles. And for the Air, taking the height of it from the part of the ordinary Comers, it contains by estimation about fifty two miles, 25 Nonias, Vitellio, and Albasen thew by Germetrical proofs. Whence

Whence it plainly appears, that there cannot be that proportion betwire the entire Bodies of the Elements which is pretended, nor at any time was fince the Creation. And for their parts, 'tis as clear by experience, that out of a few drops of Water, may be made fo much Air as shall exceed them a thousand

times at least.

There is in the Elements a noble compensation of their fourfold qualities, dispencing themselves by even turnes and just measures. For as the Circle of the Year is distinguished by four quarters, one succeeding another; the time running about by equal distances: In like manner the Four Elements of the World by a reciprocal viciffitude exceed one another: and which a man would think to be incredible, while they seem to dye, as Phile writes, they become Immortal, running the same race, and instantly traveling up and down by the same path. From the Earth the way rifeth upward,, it dissolving into VVater, the VVater vapours forth into the Air, the Air is rarified into Fire, and again they descend downward the same way, the Fire by quenching being turned into Air, the Air thickned itto VVater, and the Water into Earth. Hisherto Philo, wherein after his usual manner he Placenizes, the same being in effect to be found in Plato's Timesu, as also in Aristotles Book De Mundo, if it be his, in Damascen, and Gregory Nyllen. And most elegantly in the wittiest of Poets, Ovid Met. 15.

> -Resolutaque telliss In liquidas rarescit aques tenuatur in au-TAS.

> Aeraque kumor habet dempte queque pondere

THT HIS -

In superos aer tenuissimus emicat ignes. Inderetro redeunt : idemane retexitar erde Ignis enim densum spissatus in Aera transit Hinc in aquas tellus glomerata cogetur unda.

The Earth resolved is turned into streames.

Water to Air, the purer Air to Flames: From whence they back return, the fiery Aakes

Are turned to Air, the Air thickned takes

The Liquid form of Water, that Earth makes.

The Four Elements herein resembling an Instrument of Musick with four strings, which may be tuned diverse wayes, and yet the harmony still remains sweet: and so are they compared in the Book of Wildom, Cap. 19. v. 17. The Elements agreed amongst themselves in this

this change, as when one tune is changed upon an Instrument of Ausick, and the Melody still remaineth.

Vique novis facilis signatur cera figurit No maner ut fuerat, no formam servat eandom, Sed tamen ipsa eadem est.

They are the Verses of Ovid in the 15 Met. touching which several Prints stamped upon one and the same lump of Wax Barras curiously dilates in one of his weeks.

Our next subject will be to discourse of Comets and Blazing Scarrs, he uncertainty of the Predictions of them. Some took the Comet to have been a Star Ordained and Created from the fiest beginning of the World, but appearing only by times and by turnes: of this mind Was Senica; Cardan likewise in latter times harp's much, if not upon the same, yet the like firing. But Aristoele (in his Natur. Quest. Lib. 7. Cap. 21. 23. (whose weighty realons and deep judgment I much reverence)conceiveth the Matter of the Comes, to be a very hot and dry exhalation, which being lifted up, by the force and vertue of the Sun, into the highest Region of the Air is there inflamed, partly by the Elements of Fire, upon which it bordereth, and partly by the motions of the Heavens vens which hurleth it about; so that there is in the same manner of an Earth-quake, the Wind, the Lightning, and a Comet, if it be imprisoned in the bowels of the Earth, it causeth an Earthquake, if it ascend to the Middle Region of the Air, and be from thence beaten back; Wind it it enter that Region and be there environed with a thick Cloud; Lightning; if it pass that Region a Comet, or some other fiery Meteor, in case the matter be not sufficiently capable thereof.

The common Opinion hath been, that Cometi either as Signes or Caules, or both, have always Prognosticated some dreadful mishaps to the World, as out-ragious Winds, extraordinary Drought, Dearth, Pestilence, Warrs, the death of Princes and the like.

Nunquam futilibus excanduit ignibus ather.

Nere did the Heavens with idle blazes Flame.

So Maneline hath it. But the Lord Privy Seal, Earl of Northampton, in his Desensative against the Poyson of supposed Prophesies, hath so strongly incountered this Opinion, that for my own part i must profess, he hath perswaded me, that there is no certainty of those Predictions, in as much as Commes do not always.

always fore run such events, neither do these events always follow upon the appearing of Comers. Some instances he produceth of Comers, which brought with them such abundance of all things, and abated their prises to so low an Ebbe, as stories have recorded it for Monuments, and Miracles to posterity: and the like, faith he could I lay of others, Anno Dom. 15.5. 1556. 1557. 1558. After all which years nothing chanced that should drive a man to feek out any caule above the common reach: and therefore I do allow of the diligence of Gemma Frisius, in taking notice of as many good, as bad eff. Cts, which have succeeded after Comets. Moreover he sells us, that Peucer, a great Mathematician of Germany, Prognosticated upon the last Comet, before the writing of his Desensative, that Mens bodies should be parched and burned up with heat: But how fell it out? Forsooth, saith he, we had not a more unkindly Summer for many years, in respect of ex raordinary cold: never less inclination to War; No Prince deceased in that time, and the Plague in Lombardy, as God would have it, ceased at the rising of the Comet. Besides all this he reports, of his own experience as an Eye witness, that when divers persons, upon greater scrupulosity then cause, went about to disswade Queen Elizabeth, lying then at Riebmend, from looking on the Comes which

which then appeared, with a courage answer rable to the greatness of her State, she cauled the Window to be fet open, and cast out this Word, Jaura est alea, the Dice are thrown; thereby shewing, that her stedfast hope and confidence, was too firmly planted in the good pleasure and Providence of God, as not to be blasted or affrighted with those beams, which either had a ground in Nature whereupon to rise, or at least-wise no warrant in Scripture to portend the mistortune of Princes. Neither have I heard of any Comer that appeared before her Death (as at her entrance there did) nor that of Prince Henry, nor of Henry the Geat of France; the one being a most peerless Queen, the other a most incomparable Prince, and the third for Prudence and Valour, a matchless King: Therefore as Seneca truly notes. Natural is magis nova quem magna mirari, It is natural unto us to be inquisived and curious rather about things new and strange, than those which are in their own nature truly great; yet even amongst the Ancients, Ukarlemaine professed, that he feared not the signe of the Blazing-Star, but the Great and Potent Creator thereof. And Vespasian, as Dion reports, when the apparition of a Comet was shought to portend his Death, replied merrily: No, said he, this bushy Star notes not me, but the Parthian King:

King: Ipfe enim Cometus est, ego vere calvus sum ; tor ne wares bushy Locks, but I am bald. Lastiy, some Comers have been the M. sengers ot joyful and happy tidings, as at the Birth of our Saviour, and another at the Death of Nero, Cemetes somme bonis apparuit, qui pramuntius suit Mortis Magni illises l'yranni, & pestilintissimi biminu, saita Tavi:ui: There appeared a savourable and auspicious comet, as an Herauld to Proclaim the Death of that Great Tyrant and most Pestilent Man. Though as to some judgments we are sensible (they by the Effects have been predictive) though the Astronomers have not found them out. Now that which hath been said of Comets may also be applied to other Fiery and Watery Meterrs, as Streamings, Swords, flying Dragons, fighting Armies, Gapings, two or three Sunns and Moons, and the like appearing in the Air, many times to the great terrour and astonishment of the beholders: of all which and many more of that kind, he that defires to read more of, I refer him to Vicomercaius, Garzaus, Pontanus, & Lycostehenes de predigits & portentis ab orbe condito, asque ad annum 1557 And to other latter writers of Monstrous and Prodigious accidents. But the strangest Apparition in the Air that ever I heard or read of, was that which I find reported by Mr. Fox. in his Alts and Monuments.

Mary was in the heat of treating, and neer upon the concluding. There app aid in London on the fitteenth of February 1554, a Rainbow reverted, the Bow turning downwards, and the two ends standing upwards, a Prodigious and Supernatural Sign indeed of those milerable and bloudy times which quickly followed after.

As touching unseasonable Weather, for excessive Heat and cold, or immoderate Drought and Rain. Thunder and Lightning Frost and Snow, Hail and Winds, yea and Contagious Sicknesses, and Pellisential and Epidemical Diseases, these arise from the insection of the Air, by noisome Mists and Vapours, to which we may adde Earthquakes, burning in the

bowels of the Earths and the like

Earthquakes arise also from the distempers of the Ar, but in another manner. They first gave occasion to the composing of that Letany, and therein to the Petition against suadain Death, which by Publick Authority is used through the Christian Churches at this day. By the force of Earthquake convary to the Proverb, Mountains have met the City of Antisch, where the Disciples were sight called Christians, with a great part of which be releving upon it, was in Trajans time swallowed with an farth-quake, as Dien writes, who reports very merquake, as Dien writes, who reports very merquake.

veilous things thereof. By the same means at one time were Twelve famous Cities of Asia over-turned in the Reign of Tibrius. And at another time as many Towns of Campania under Constantine. And of late times we have not been without such wonderful examples of the dreadfulness of this accident, above the Pestilence or any other Miseries incident to Mankind. Seneca excellently discourses of them, in the Sixth Book of his Natural Question, Hostem mure expellam, faith he, and so he goes on; to avoid prolixity I shall here give you only the English, A Wall will repel an Enemy, Rampires raised to a great height by the difficulty of their accels will keep out powerful Armies, An Haven shelters us from a Tempest, and the covering of our Houses from the violence of Storms and lasting Rains; the Fire doth not follow us, if we Fly from it: against Thunder and the Threats of Heaven, vaults under ground, and deep Caves are Remedies; those Blastings and Flashes from above, do not pierce the Earth, but are blunted by a little piece of it opposed against them; In the time of Pestilence a Man may change Dwellings, there is no mischief but may be shunned, the Lightning never struck a whole Nation, a Pestilential Air hath emptied Cities, not over-turned them: but this mischief is large in spreading, Midaplakeun

unavoidably greedy of Destruction, generally dangerous. For it doth not only depopulate Houses and Families, and Towns, but layes waste and makes desolate whole Regions and Countries: sometimes covering them with their own Ruines, and sometimes overwhelming them, and burying them in deep Gulfs, leaving nothing whereby it may appear fo much as to posterity, that that which is not, sometimes was, but the Earth is levelled over most famous Cities, without any mark of their former existence; so far Seneca.

As these quakings of the Earth are very terrible, so are the burnings of the Bowels thereof no less dreadful; the one being as it were the cold, and the other the hot fits thereof. The Mountain Errain Sieile hath flamed in time past so abundantly, that by reason of the thick smoak and vapours arising therefrom, the Inhabitants thereabout sometimes could not see one another (if we may give credit to Sandies relation Lib.4.) It raged so much that Africa was thereof an astonished Witness. But Virgils admirable description of it may serve for all.

- Horificis tonat Etna ruinis Interdumque atram perumpit ad athera Nubem; Turbine fumantem piceo, & candente favilla,

Attellitque

Attollitque globos Flammarum & Sydera Lambit;
Interdam scopulos, avulsaque viscera Montis
tis
Erigit erustans l'quesassaque saxa sub autras
vas
Cum gemita glomerat, sundoque exastuat
inso.

noise,
Sometimes black clouds evaporated to the skies,
Fuming with pitchy curles, and spark-ling Fires,
Tosseth up, Globes of Flames to Starrs aspires,
Now belching Rocks, the Mountains entrailes torne,
And groaning hurles out liquid Stones there born
Thorow the Air in showres.

(75)

But rightly did Ovid in the 15cMet. Devine of this Mountain and the burnings therein,

Nec que sulphuriis ardet fornacibus Æma Ignea semper erit, neque unim fuit ignea semper.

doth raile, Shall not still burn, nor hath it burnt always.

The like may be said of Vosnoins in the Kingdom of Naples, it flamed with the greatest horrour in the first, or as some say in the third year of the Emperour Titus, where besides Beasts, Fishes, and Foul, it devoured evoladisyning Cities, Herculanum and Pompeius, with the People in the Theatre: Pling the Natural Historian, then Admiral of the Roman Navy, desirous to discover the reason, was suffocated, as his Nephew expected in an Epistle of his to Cornelius Tacitus; the likes is to his too strict enquiry of the increase and decrease of the Stabeing reported of Aristole.

Having thus imployed my Reason as Divinly as I could in presenting my Reader with an explanation of a sew Leaves of the great Volume of Nature: I shall now (with his savour) think it convenient before I proceed

Arts, &c. To retute such other Vulgar Errours in their several Classes (though less considerable) as hithered I have not met withal.

1. It is a common received Opinion in Philosophy that the principal taculties of the Soul, the Understanding, the Imagination and Memory are distinguished by three several Cells or Ventricles in the Brain, the imagination (as is conceived) being confined to the fore-part, the Memory to the hinder part, and the Judgment and Understanding to the middle part thereof; which Opinion Lanrentius confutes, in his Hist. Anat. Lib. 10. 9.2. and Fe nelius derides, making them all to be dispersed through all the receptacles of the brain, in as much as fometimes when the wholeBrain is disaffected, the operation but of one of these Faculties is hurr, and sometimes again, when but one Ventricle is hurt the operation of all thethree Faculties is hindred. Neither ought it to seem more strange, that the same Ventricle in the brain should be capable of all these three Function, then that the same Bone or Sinew and every part or Particle thereof should have in it (in regard of the nourishment it receives, and the excrement it drives forth) an attractive, a retentive, an assimil: tive, and an expulsive Vertue.

2. That in Nature there is an East and a West,

West, which as to me it seems cannot be, since that which to us is East, is West to our Antipeder, and that which is East to them, is West tous.

3. That a man hath a Natural speech of his own, as he is a man, (some think Hebrew) which Language he could speak by Nature it he were not taught some other: but this is a Dream, and hath as Hirodorus Lib. 6. been twice confuted by a dcuble experiment. The first was by Psammericus a King of Egypt, who defiring to understand which was Mans most Ancient and Natural Language, caused two Children to be sequestred from all society of Men, and to be nourished by two she Goats, forbidding all speech unto them: which the Children continuing for a long time Dumb, at last uttered Bee, Bee: The King being informed, that in the Phrigian Language Bie signisted Bread, imagined the Children called then for Bread; and from thence coilested that because they spake that Language which no man had taught them; therefore the Phrigian Language was the Natural speech of Man. A weak proof and filly conceit. For the Childrens Bick (as is probably collected) was only that Language which they learned of their Goat-Nurses, when they came to suck their Tetts, who receiving from them some ease by their sucking, saluted them with Bec, the best Language they had, srom whom the Children

dren learned its and so much as they heard, so much just they uttered, and no more: and if they had not heard it, they could never have pronounced it, as we may evidently see in men that are born Deaf; and by another experiment tryed upon other Infants, (which is our second instance) Purchas mentions it in his Pilgrims, Lib. 1. Cap. 8. tryed by Melab. dim Elebebar, whom they call the great Mogore or Migul. He likewise upon the forenamed Errour, That a Man hath a ceitain proper Language by Nature, caused thirty Children to be brought up in dumb silence, to find out the Experiment, whether all of them would speak one and the same Language, having inwardly a purpose to frame his Religion according to that Nation, whose Language should be spoken, as being that Religion which is purely Natural to Man. But the Children proved all Dumb, though they were so many of them, and therefore they could not speak, because they were not taught: whereby it appeareth, that the speaking of any Language is not in Man by Nature; thefirst Mai had it by Divine Insusion, but all his Posterity only by Imitation.

4. In Philesphy it is commonly received, that the Heart is the seat and shop of the Principal Faculties of the Soul: Nay, Divine Scripture applying it selt to the ordinary Opinion

Opinion therein, in many places Attributes Wisdom and Understanding to the Heart: Whereas the noble pair of Physicians Hipserates and Galen have made it evident by experimental proofs, that those Divine Powers of reasoning and discourse are seated in the brain, in as much as they are never hindred by the Distemper of the Heart, but of the Brain, nor recovered, being lost, by Medicaments applyed to the Heart, but to the Brain.

5. That the Radical Moisture, and primogenial heat naturally ingrasted in us wastes always by degrees from the time of our Conception, as Oyl in a Lamp, or Wax in a Taper: whereas till we come to the age of Consistence, we still grow in bulk, in strength, and stature: which for my own part I cannot conceive how it should be, if from our Infancy, our Natural heat and moisture still decreased.

6. That one hand by Nature is more useful and properly made for Action then the other: whereas we find no difference betwix the two Eyes, the two Ears, the two Nostrills; and if Men were left to themselves, as many I think, if not more, would use the lest hand, as now by education and custom do the right: And in truth I am of Opinion that God and Nature have given us two hands.

hands, that we should use both indifferently, that if need required, the one might supply the loss or desect of the other. Such would Plate have the Citizens of his Commonwealth to be, and such I do take those seven hundied Benjamite to have been mentioned in the 20th. of Judges; and if either hand should in Nature be preferred before the other, methinks in reason it should be that next the Heart, the Fountain of Life and Activity.

Secondly in History, which is Ecclesiastical, Civil, or Natural. To begin with that of

Ecclesiastical.

1. It is commonly received, that Simon Peter encountred with Simon Magus, and that the Magician undertaking to fly up into the Air, the Apostle so wrought by Prayer and Fasting, that he came tumbling down and brake his Neck: But of this story saith St. Augustine, in his Epist. 86. Consulano, est quidem & bac Op nie plurimmum, quanvis cam perhibeant esse faisam plerique Romani: Many are of this Opinion, yet most of the Roman Writers would have it but a Tale. And in another place he calls it Greciam fabulam, an invention of the Grecians, who were so fruitful in these kind of Fibles, that Pling himself could say of them, Hft. Nat. Lib. 8. 22. Mirum est que procedat Graca credulitas, nullum tam impudens mendaeium est ut teste careat; it is a wonder to

scentherer the creditive of the Grade carry them, their being no lye for thimefull, but it Since at Lauron amont feetiem: 1112y; Juvenel the you know ecessal in the control immoderate la ser de Javin, Sat, 10.

Be Ascapite Green mindax July Labric.

What darcing Lying Greece Electio Billories.

2. That a course was a Holy Martyr, and that he Concrete the Dregon; Whereas Dr. Reynolding total Rom, Leol Lib. 10. Cap. 50. Proves himselve betha wicked man and an Arrian and Bumony of Epiphanius, Athasell in main come aftirms Deparet totam illam de Albe Gengu goulant fuiffe commentum Arrio-"From Later than the whole story of George La Propertie Lelle bara forgery of the Arviene ve was neuerocie (as we know) as 2 Canonia and Christendom, and to be the Part bedrot our Nation, and of the real branche franchist in the World

3. That

3. That the Wife-men that came out of the East to Worship our Savienr, were Kings, and from hence (their bodies being Translated to Callen) they are at this day commonly called the threeKings of Gullen, and the day Consecrated to their Memory, is by the French termed Le jour de Trois Rois, The day of the Three Kings. Yet Mantuan a Monk, sears not to declare his Opinion to the contrary, and gives his reason sor it.

Nec Reges at opiner trant, neque enime tacuissent
Historia Sacra Authores; Genus illud bonoris
est
Inter Mortales que non sublimism ullum,
Adde qued Herodus, ut magnificantia Regum
Possulat, bospitibus causa regale dedisses
Hospitium, secumque Lares danisses in amples.

Had they been Kings, nor holy History
Would have concealed their to great
Majesty,
Higher on which on Earth none can be
named;
Herods Magnificence would fure have
framed

Some

Some entertainment filting their Estates, And harbour'd them within his Royal Gates.

4. That the Spills clearly foretold touchiing the Plane of the forerunder, the Birth and Death of Christ, the coming of Antichrist, the overthrow of Rose, and the confummation of the World, which notwithstanding,(as Causaban hath learnedly observed) seems to be contrary to the Word of God, that so profound Myfferies bould be revealed to the Gentiles, so long before the Incarration of Christ; especially smore they write more plainly and particularly of those matters then the Prophets of God themselves amongst the Jewi; and the greatest Clarks amongst the Gentiles Plate, Anflotte, Thundsiafins, and others curious fearchers into all kind of Learning, never to much as once mention either their Names or their Writings, nor any of their Mysteries While the Church of Christ was yer in her Intency-many fuch kind of Books were forged thereby to make the Doctrine of the Goffel more passible among the Gentles; and no marget then that these of the Sybills palled for current amongst cham.

s. In History Givil or National, it is commonly received, that there were four, and but tour Monarchies succeeding one the other; the African, the Persian, the Gresian, and the Roman; yet John Bodwinga man of fingular Learning, especially in matter of History, dares thus to begin the feventh Chapter of his Meibod! Inveterasus error de quaissor Imperiis, ac magnorum virorum opinione pervulgatus, tam alic radices egit, ut vix evelli poffe videatur. That inveterate errour of Four Empires made famous through the Opinion of great Men, hath taken such deep roots, as it seems it can hardly be pluckt up; and thorow a great part of that Chapter labours he the confutation of those that maintain that Opinion.

great Grand-child to Enem, artived in this Island, and gave it the Name of Great Brittain from himself, here Reigned, and lest the Government thereof divided amongst his three Sons, England to Longitus, Seating to Albanak, and Wales to Camber: Yet Canden our great Antiquary, Brit. de primis Incolis, beating (as he protesseth) his Brains and bending the force of his Wits to maintain that Opinion, he found no warrantable ground for it. Nay by forcible Arguments (produced as in the person

person of others disputing against himself) he strongly provesie, (in my judgment) altogether unwarrantable and unlound. Boccace, Vives, Adricamm, Junius, Polidorus, Vignier, Genebrard, Molinam, Bodine, and other latter Writers of great account, are all of opinion, that there was no luch man as this supposed Brute: And amongst our own Ancient Chronicles, John of Weibamilted, Abbot of Sa Alban holdeth the whole Narration of Brute rather to have been Poencal then Hiffmical, as you shall find in his Granario 1440, which methinks is agreeable to reason, since Cesar, Tacum, Gildas, Nining, Bede, William of Malmesbury, and as many others as have wetten any thing touching our Country before the year 1160. make no mention at all of him. The first that ever broached it was Giffer of Monmouth about Four hundred years 1280, duting the Reign of Home the Second who publishing the British Story in Laun, presended to have it taken eur of Ancient Monuments weitten in te pecped forth into the Light, was therply centured both by Giralden Cambrenfis, and Witern of Newbers who lived as the large time; the formers and Build better then Eabild and Historiam, a saylors, Successfully and the latter Riarrala Figures, thick one pictions, and it 135(6) now

now stands branded with a black cole amongst the Books prohibited by the Church of Reme.

- 3. That the Sours called the remainder of the Brittains, Welch, as being strangers to them: Whereas that Word figuries not as Arangers either in the high or low Durch, as Unfligen, a man skilful in those Languages, hath observed; and that the Sexus gave them the name of Welch, after themselves came into Britisis, is altogether unlikely: For that, inhabiting to neer them as they did, to wir, but over against them on the other side of the Sea, they could not want a more particular and proper Name for them, then to call them Strangers. It seems then to be more likely, that the Romans being Originally descended from the Gauler, the Samue according to their manner of speech, by turning the G. into the W. and instead of Galife called them Wallis, and by a breviation walk or wileb, as the Front at this day call the Prince of Wales, Prince de Galles.
 - 4. That the Pignote are a Nation of Pcople not above two or clarce foot high, and that they folemply fer themselves in Pattail array to fight against the Crass, their greatest Encmics:

mies: of these notwithstanding Calaries in his Book De Gigantibue, Cap Ultime, Laith, Fabulofa illa omnia funt qua de illis, vel Poeta, vel alii Scriptures tradiderune: All those things are Fabulous, which touching them either the Poets or other Writers have delivered. And With him futber accordets Cardan, Dererms varietates ap 4. Apparet erge Pigmieram Hifteriam effe fabulefam, gued che Strabo fentit, & nofira cras, cum mama mue firme prim mirabilia innot merint, declarate. It appeares then that the History of the Rigner is but a Ricton, as both Strate thought, and our age, which have now discovered all the wonders of the World, fully declares, Geliavallo, and Relogie refer thole Pigning it any fuch there be, to a kind of April .

In Natural Hiltory to pais by that Vulgar Errous of the Phones, to startedly refused by one of this late. Writers, J. I hall here first gantage that face Writers, J. I hall here first gantage that historing without all forth or fathion, and nothing bot, a little congeated Blood, or himp of Fielh, which afterwards the Damiliapeth by lickings yet is the Truth most cyclendy otherwise, as by the Ey withels of feathers as here. And herein, and others it hath been present. And herein, as in many others.

other sabulous Narranions of this Nature, Ginwhich experience shocks reportal may we justly put that of Lucrosing women and wells John State Charles Market and Committee Commit Lines which will be a supplied Tour sold state with the control of Ses कि का श्री क points का अपने शहर का देवी क्रिक्ट कर सामा के the second of the American Second of the Sec The state of the s What can more gertain bother lence ; Discerning trush from falle presences Dinoxidate the second and the second second Strass in oughesting the religion of the laye now 2. That Swane a little before aliein Death fing most sweetly, of which notwithstanding Play Hift. 10.23 withits speaks Glauni mire narratur flebilis cantus, falfo ut arbitror aliquetate: perimentu. Swans are faid to fing sweetly before their Death; but failly, as I rake it, being led lo to think; by forme experiments. And Sealigir, i Elegrical 21/ Fol the like plud pole, vic Cygne very carry) fancy firms grow com Menddeurum parante Græcia fallare mim de ad Luciani tribunal, apua girem aliquia neve dicasis stati Touching, the tweet finging of alft Swan which with Greecethe Mether of Lies you date to Publish: Leite pou to Laciani Tribinal there to let abroach tome new fuff. Andre Elian, Libe 10. 14. Cantand findiofor effe

jam communi formene perudlogenum eft : egg voin eige: mentioned and an experience of the selection of the contractions Shansal cakillabin froming show silennevery. mais mouth tout for my feld lenever heard them fing, and perchance bothan elfe. YEWS Life, and continued and a sile the Tangata could have not presupor the Herbasekinices both whit browniblanding by daily and manifelt experiente are found ad the Hunter statement and the Hunter of the H And the second factor of the projection 4 That the Leverbeing hundrande in dans ger to be taken bueth off his Stones, knows ing that for them his Life only is fought, and to offen cleaneths bence to mathrive derived his mane Color of Color and or fripling from gelding himself earld depon chies supposition the As a single special philader when they will fignific a man rhachurstid dioiself they pidure disprishing of hisplining Stones. shough askies in his feet her sumes it to a consury purposed reactions up by that exampic to got any pure puricult, cheeves tasher then one lives, early by our Weakh to redecen our danger : But ches relation touching the Reverse and analytically fallen as book by fonce and experience and the religions of Diefonider, Lib 34 Cap 13 in mainfested. First, because their stones are very small, and so placed is T.

in their bodies as area Bores, and therefore impossible for the Boom himself, to touch or come by them; and Secondly, they cleave so fast unto their back, that they cannot be taken away, but the Beast must of necessity lose his Life; and consequently most ridiculous is their Natration, who likewise assume than when he is hunted, having sormerly bitten off his stones, he standeth upright, and sheweth the Hunters that he bath none for them, and therefore his Death cannot profit them, by means whereof they are averted and seek for another.

cher a Female: whereas Rondinium affirms, that they are not stones which are commonly taken to be so in the Female; but certain little bladders filled with mauter, such as are upon the belly of a Beur, wherein also the Vulgar is deceived, missaking (as I should before have taken notice) those such stones as they do these; Now the use of those pairs both in Beaut and Harristhis; that against Rainboth the one and the other Sex such our a certain burnour, and anoing their sodies all over therewith, which serves them for a kind of a desence against Rain.

6. That a Salamonder lives in the Fire, yet both Galon and Dioferrides refune this Opinion. And Marbiolog in his commentaries upon Dissociates, a very famous Physician, affirms of them, that by caking of many Salamonders into the Fire for tryal, he found it falle. The fame experiment is likewise avouched by Journals.

7. That a Wolfesif he see a man first suddenly strikes him dumb, whence somes the Proverby Lupus of in fability and that of the Poes,

Lapi Marin vider priori)

The miles for Macis fif.

Yet Philip Comerarius profession, sabulfant ess qued vulge aridina bonnin a Laps pravisant substantisment of view amitters. That it is sabilious which is commonly believed, that a Man being first seen of a Woss is therewest associated and looseth his voice: And that himself liath sound it by experience to be a vair Opinion, which Scaling likewise assimus upon the same ground. Trinam tot sandress upon the same ground. Trinam tot sandress upon the same ground.

6. That

trons of Lies were challifed with to many blows as at fundry times I have been feen of the fee withour any looking of my voice.

That men are lometimes transformed inso Wdyer, and again from Wolver into men: touching the fallehood whereof Phan himself is thus confident, Nat Hift. Lib. 8. Cap. 22. Hoppines in Lapos werte zur sur gur que restituti fibr, fal-[197 : 16 forfidenter, existimare debemais, aut credere omnia que fapulosa con secuie comperimen. That menare changed into Wolves, and again restored to themselves, that is to the shape of men, we ought assuredly to believe falle or give credit to whatloever we have found fabulous, through the course of formany ages. Now that which hath given occasion to this opinion might be as I suppose either an illusion of Sam in regard of the beholders, or a fireng melancholy imagination in the patients, for the education of men amongst Wolves from their yery infancy. For that the Devil can at his pleature translubliantiate proteaustorm one substance into another. I hold it no sound himself to be a concertance the test of the second the second to the sec gir That the Mandrakes represent the parts and hangof a Man: yet the lame Main olas

in his Commentary upon Divisoridary affirms, of them, Radices pure Mandragura humanam officient them, Radices pure Mandragura humanam officient That the Roots of the Mandrake reprefentation of a Man, as it is commonly believed is about lous, ealing them sheating knaves and quigote salvers that carry them about your believed to knit therewith to deceive barren Women and the quit

to. That the Religant turned her beak against her brest, and therewith spierceth is full the blood gust out, wherewith specieth is full the blood gust out, wherewith speciets is full the young: whereas a Pelican hath a beak break and flar, much like the slice of, Apotheeasies, and Chirurgions, wherewith they spread their Phaisters, no way sit to pierce, as Laurenting Gubertus, Counsellor and Physician to, Henry the Fourth of Francisia his book of popular Errors hath observed.

ther of whom they are bred; Sealiger out of his own experience assures the contrary. Viri peras, saith he, abimpatientibul more setious. Nationaros asque ideires erumpintibus rumpi asque interine falsum est seimus, qui in Vincentii surmitationi Lighteathees videmus parta viperillas partitis tessalva: That Viperi are rent and sain by the number of their young ones, impatient of day.

fay, and driving to get forth, we know to be talle, who in a wooden box belonging to Fine entire Comerina have feel the young ones newly brought forth, together with the old one, sale and sound. True it is that the Riper bringing fometimes twenty or more, and being but delivered of one a day, the hindermost impatient of so long delay sometimes gnaws through the tunicle or facil of the Egge in which they are inclosed, and cometh terth with part of it upon them, which driftels affirming, thereupon it feemshath grown the mistake, that they gnaw through the belly of their Dam, which is undoubtedly falle. The derivation then of the Word Finns being Quafi vi pariem, is but a trick of wie grounded upon an Erroneous suspicion; le being rather (2s I conceive) from visions parients, there being no other kind of Seppent that beingeth forth her young hatched out of an Egge, but only the Vipir. For the Readers ampler and fuller satisfaction in such euriosities. Liefere him to Docter Browns Learned discourse of the Errors of the Vulgar.

For though I might give many more instances both in Philosophy and History, to shew that it is a thing neither new nor unjustistable by the practice of Wisconen, to examine

and impugne received Opinions, if they be tound Erroncous; Neverthelels for the piclent, Let it suffice (that ambigst many others throughout this Treatife) have also remove ed theferew stumbling blocks out of the way. I shall next make good my promise according to the brevity of my former Machod, to treat of the decay of the Powers of the minde in the Arts and Sciences, their lielps and hindrances in manter of Learning, bullanced; as also that there is both in Wits and Arts, as in all things belides, a kind of a circular progrets, as well in regard of places as times, that they have their rife and fall, increase and decrease, and so through the Divine affiltance I skall ict a period to this discourse.

Since it is a received conclusion of the choiceest, both Divines and Philosophers, that the
reasonable Soul of Man is not converted into him by his Parents, but insufed immediately by the Creatour, and withall that the Souls
of all mentat their first Creation and Insusion,
are equal and perfect alike, endued with the
same Essence and abilities, it must needs be,
that the inequality and disparity of actions,
which they produce, arise from the diverte
temper of the matter which they informed
and by which, as by an instrument they work.

New

Now the matter being tempered by the disposition of the bodies of our Parents, the influences of the Heavens, the quadry of the Elements, Diet, Exercife, and the like, it remains, that as there is a variety and Vicishitude of these in regard of goodness, so is there likewise in the temper of the matter whereof we consist, and the actions which by it our Souls produce: year where both the Agents and the instruments are alike, yet by the diversity of education and Industry, their works are

many times infinitely diversified.

The principal faculties of the Soul are Imagination, Judgment, and Memory: One of the most famous for Memory amongst the Ancients, was Sereca the Father, who reports of himlest Preamic, Lab. i. Contraver. That he could repeat a thouland names or two hundred verses, brought to his Master by his School fellows backwards or forwards. But that which Muretus Lib. 3 Variar Lection. reports of a young Man of Corfice, a Student in the Civil Law, whom himself saw, at Padas, far exceeds it: he could, saith he recite Thirty thousand Names in the same order as they were delivered, without any stop or staggering, as readily as if he had read them out of a Book: his conclusion is Huic ego nec

ex antiquitate quidam, quemi opponam babeo, nist forte Cyrum, quem Plinius, Quincilianus, & alsi Latini Scriptores tradiderunt tenuiffe omnium militum nomina: I find none among the Ancients, whom I may set against him, unlets Grus perchance, whom Pling, Quintillian, and other Latin Writers, report to have remembred the names of all his Souldiers, which yet Muretus himself doubts was mistaken of them. Zenephon, of whom only or principally they could learn it, affirming only that he remembred the names of his principal Captains, or chief Commanders. And Aneus Sylvin, in his History of the Council of Bafil (at which himself was present) tells us of Ledevicus -Pontanus of Spoleta, a Lawyer likewise by Profession, (who dyed of the Pestilence at the Council, at Thirty years of age) that he could recite not the Titles only, but the intire Bodies of the Laws, being for vastness and fastness of Memory. Nemini Antiquorum inferior, as he speaks, nothing inferiour to any of the Ancients. Famianus Strada, in his first Book of Academical Prolucions, relates of Francis Suariz, who had, faith he, fo strong a Memory, that he had St. Augustine (the most copious and various of the Fathers) ready by heart, alledging every wihere (as coccasion presented it self) fully and faithfully, his Sentences"

Sentences, and which is stranger, his very words; nay, if he demanded any thing touching any passage in any of his Volumes (which of them will make a great thew towards the filling of a Library) Statim quo lequo, quaque pagina disserueris ea superre expedite docentem ac digito commonstrantem sepè vidensus: I my self have often seen him instantly shewing and pointing with his Finger, to the place and Page in which he disputed of that Matter; this is, I confels, the Testimony of one Festit touching another, but of Dr. Rainolds, it is most certain, that he excelled this way, to the assonishment of all that were inwardly acquainted with him, not only for St. Augustines works, but also all Classick Authors: so that as in this respect it might truly be said of him, which hath been applyed to some others, that he was a living Library, or a third University: for it hath been very credibly reported of him, that upon occasion of some writings which passed to and fto, betwixt him and Dr. Gentilis, then a professour in our Civil Laws, he publickly professed, that he thought Dr. Reynolds had read, and did remember more of those Laws then himself, though it were his Profession, in which he asiminably excelled.

And

And for the excellency of the other faculties of the Mind, together with that of the Memory, it is a wonderful Testimony that Fines (a Man of eminent parts) in his Commentaries on the second Book, and 17. Cap. Le Civit. Dei, gives Budaus; Que viro, (faith hie) Gallia accusiore ingenie, acriore judicio, exaliere diligentia, majore eruditione nullum nunquam preduxit, bac vera etate nee Italia quidem; then which man, France never brought forth a fharper wit, or pierceing judgment, of more exact diligence, or greater Learning, por in this age Italie it self: And then going on tells us, that there was nothing written in Greek or Lain, which he had not turned over, read and examined; Greek and Latin Were both alike to him, yet was he in both most excellent, speaking either of them as readily, and perchance with more case then the French, his Mother Tongue; he would read out a Greek Book in Latin, and out of the Latin Book into Greek. Those things which we see so exquisitely written by him, flowed from him extempore; he writ more skilfully both in Greek and Latin, then (as he affirms) the most skilfull in those Languages understand. Nothing in those Tongues being fo abstruce and difficult, which he had not ransacked, entred upon, looked into, and brought

brought as it were another Corberus from Darkiness to Light. Infinite are the significations of Words, the Figures, and proprieties of speech, which unknown to former Ages, by the only help of Budens, studious men are now acquainted with. And thele to great and admirable things, he without the direction of any Teacher, learned meerly by his own industry; Falix & fesundum ingenium, qued in se une invenit & dectorem & discipulum, & docendi viam rationemque, & cujus decimam partem, alii sub magnis Mag stris vix discunt, ipseid totum a se Magi. strum edeltus est: An happy and fruitful Wit, which in himself alone found both a Master and a Scholler, and a method of teaching; and the tenth part of that which others can hardly attain unto under famous Teachers, all that learned he of himself, being his own Reader. And yet (saith he) hitherto have I ipoken nothing of his knowledg in the Laws, which being in a manner ruined, seem by him to have been restored; nothing of his Philosophy, whereof he hath given us a tryal in his Book de Asse, that no man could compose them, but such a one as was alfiduously versed in all the books of the Philosophers; and then having highly commended him for his piety, his sweet behaviour, behaviour, and many-other rare and singular Vertues added to his greatness, he farther adds, notwithstanding all this, that he was continually conversant in domestick and state Affirs at home, and Ambassages abroad; for it might truly be said of him, As Plusius Cacilus speaks of his Unde Secundus, when I consider his state Affairs; and the happy dispatch of so many businesses. I wonder at the multiplicity of his Reading and Writing; and again, when I consider this, I wonder at that and so leave him with that happy distinct of Buckanay.

Gallia quod Graca est y qued Graca barbara nonese,

Viraque Budao debet utrumque suc.

That France is turn'd to Greece, that Greece is not turn'd rude,

Both owie them both to thee, their dear great dearned Bude:

And if we look over the Peryneur, Metamorus, in his Treatile of Universities and learned men of Spain, he spares not to write H 3

of Testatus Bishop of Abulum, si alio quam suo Jeculo vivere contigesset, neq; Hipponi Augustinum, nia: Stuidoni Hieronymum, nec quempiam ex illis priscribes Ecclefie antiquie nunc inviaerimus: had he lived any other age fave his own, we should not have needed now either to envy Hippo for Augustin, or Striden for Hierom, nor any other of those ancient Worthies of the Church: To which Possevin in his Apparaises adds, that at the age of two and twenty years, he attained to the knowledge of almost all-Arts and Sciences. For besides Philosophy and Divinity, the Canon and Civil Laws. History and the Mathematicks, he was skill'd in the Greek and Hebrew Tongues: so as that it was written of him,

Hic super est Mundi, qui scibile dissutit ous-

The Worlds wonder for that he, Knows whatsoever known may be.

He was so true a student, and so constant in fitting o it, that with Didymus of Alexendria, I nea habrish intestina putaretur, he was thought thought to have a body of Brass, and so much he wrote and published, that a part of the Epitaph ingraven on his Tomb was:

Prima natalu Luci folia emnia adaptans Nondum sic facrit pagina trina satis;

The meaning is, that of his published Writings, we shall allow three leaves to every day of his Lite from his very Birth, there would be yet some to spare; and yet withal he wrot so exactly, that Kimenes his Scholler, attempting to contract his Commentaries upon Mathen could not well bring it into I ess then a thousand leaves in Folio, and that in a very small Print; and others have attempted the like in his other works with like success. But that which Pasquier hath observed out of Menasteries Lib. 56. 38. Touching a Young Man, who being not above twenty years old, came to Peris in the year 1445, and shewed himself so admirably excellent in all Arts, Sciences, and Languages, that if a man of an ordinary good wit and found constitution should live one hundred years, and during that time (if it were possibly) study incessantly, without eating

ing, drinking, sleeping, or any other recreation, he could hardly attain to that perfection: infomuch that some were of opinion, that he was Antichrist begotten of the Devil, or somewhat at least above human condition; which gave occasion to these verses of Castellanus, who lived at the same time, and himself saw this Miracle of Wit.

l'ay veu par excellence Vn jeune de Uinge ans Avoir toute Science & les degrees montans Soyse vantant scavoir dire Cequ' onques fat escrit. Par seulo sois le Lire Comme jeune Antichrist.

A young Man have I seen
At twenty years so skill'd,
That every Art he had, and all
In all degrees excell'd.
What ever yet was writ
He vaunted to pronounce
Like a young Antichrist, if he
Did read the same but once.

Not to insit upon Supermaturals; were there among us that industry, and the union of torces, and contribution of helps, as was in the Ancients, I see no sufficient Reason but the Wits of this present Age might produce as great Effects as theirs did, nay greater, inasmuch as we have the Light of their Writings to guide and affilt us: we have books by reason of the Art and Mystery of Printing more familiar, and at a cheaper rate: most men being now unwilling to give Three hundred pounds for three Books, as Place did for those of Philolaus the Pubagorean. And by this means are we freed from a number of gross Errours, which by the ignorance or negligence of unskilfull Writers crept into the Text: yet on the other fide it is as true that we are forced to spend much time in the learning of Langrages, especially the Latin, Greek, and Hebren, which the Ancients spent in the study of things, their learning being commonly written in their own Language. Besides the infinite and bitter controversies amongst Christians in matters of Religion since the Infancie thereof even to these present times, hath doubtless not a little hindered the progrels and advancement of other Sciences.

Likewise it cannot be denyed, but that the incouragements for the study of Learning were in tormer times greater. What liberal and bountitul allowance did Alexander afford Aristotle, Eight hundred Talents for the entertainment of Fishers, Faulkners and Hunters to bring him in Beasts, Fowls, Fithes of all kinds, and for the discovery of their several natures and dispositions: Nay, the daily wages of Roscius the Stage-player, as withesteth Mucrobrius, in his Saturnal Lib. 3. Cape 14. was a thousand Dexarii which amounteth to Thirty pounds of our Coyn. And Esop the Tragedian by the only exercise of the same Trade, if we may credit the same Author, that he lest his Son above One hundred and fifty thousand pounds Sterling, whereunto may be added, that the Ancients copying out their Books, for the most part with their own hand, it could not but work in them a deeper impression of the matter therein contained, and being thereby forced to content themselves with fewer Books, of necessity they held themselves more closely to them. And it is true what Seneca faith, as well in reading as eating, Varietas delessas, certitudo predest, Variety is delightful, but certainty more useful and profitable. So

So that upon the matter, reckonings cast up on all sides, and one thing being set against another, as we want some helps which the Ancients had, so we are freed from some hindrances wherewith they were incumbred; as again it is most certain, that they wanted some of our helps, and were freed from some of our hindrances: if then we come short of their persections, it is not because Nature is generally deicctive in us, but because we are wanting to our selves, and do not strive to make use of, and improve those abilities wherewith God and Nature hath endowed us. Male de Natura censet quicunque une illam aut alters partu effatum effe arbitratur, faith Vives; He thinks unworthily and irreverently of Nature who conceives her to be barren after one or two Births; No, no, that which the same Authour speaks of places, is likewise undoubtedly true of times, Obique bena nascuntur ingenia, excelanenr mode, alibi fortassis frequentiora, sed ubique nonnulla. Every where and in all ages good Wits spring up, were they dressed and manured as they ought, though happily more frequently in some places and ages then others. Scythia it self anciently yielded one Anacharsis. And no doubt had they

they taken the same course as he did, more of the same Metal would have been found there.

There is (it seems) both in Wits and Arts, as in all things belides, a kind of circular progress: they have their Birth, their growth, their flourshing, their tailing, and fading, and within a while after their Resurrection, and reflourishing again. The Arts flourished for a long time amougst the Persians, the Caldeans, the Esptians, and therefore is Meses is said to be learned in all the wildom of the Eith ans, who well knowing their own threigh, were bold to object to the Grecians, that they were still Children, as neither having the knowledge of Antiquity, nor the Antiquity of Knowledge: But afterwards the Grecians got the start of them, and grew. so excellent in all kind of Knowledge, that the rest of the World in regard of them, were reputed Barbarians, which reputation of wisdom they held even till the Apostles time. I am debter, laih St. Pase, Both to the Gracians and to the Barbarians, both to the wife and to the unwife. Rim. 1.14. And again, The Jews require a Signe, and the Gracians leik after Wisdom, i Cor. 1. 22. By reason whereof

whereof they relished not the simplicity of the Cospel, it seeming foolishness unto them: And n the seventeenth of the Alls the Philosophers of Athens, (sometimes held the most tamous University in the World) out of the opinion of their own great Learning, scorned St. Paul and his Doctrine, terming him a lower of Words, a very Babler or triffer: yet not long after this, thele very Gracia-s declined, much, and themselves (waether through their own inclination, or the reason of their Bondage under the iurk, the common Enemy both of Religion and Learning, I cannot determine) are now become so strangly Barbarous, that their Knowledge is converted into a kind of Ignorance, as is their Liberty into a contented Slavery: yet after the loss both of their Empire and Learning they still retained some spirk of their former Wit and Industry. As Juvenal hath it Sat. 7.

Ingenium velon; andacia perdita; sermes
Premptus, & Isao terrentier, ede quid
illum
Esse putas quemvis beminem secum attulit ad nos
Grammaticus, Rheter, Geometres, Pilter,
Aliptes,
Augur, Schanebates, Medicus, Magnus,
emnia nevis
Graculus esuriens in Calum jusseris,
ibit.

Quick witted, wondrous bold, well spoken, then

Ifeus Pluenter, who of all Men

Brought with himself, a Soothsayer, a Physician,
Magician, Rhetorician, Geometrician,

Grammarian, Painter, Ropewalker,
all knows

The needy Greeks bid goe to Heaven, he goes.

But now they wholly delight in eafe, in shades, in dancing, in drinking, and for the most part, no turther endeavour either the enriching of their minds or purfes then their bellies compel them.

The Lamp of Learning being thus neer extinguished in Greece,

In Latium spretis Accademia migrat Athenis.

Athens for faken by Philosophy
She for thwith travell'd into

Italy.

It began to shine asresh in Italy neer about the time of the Birth of Christ, there being a general peace thorow the World, and the Roman Empire sully settled and Established, Poets, Orators, Philosophers, and Historians, never more Excellent. From whence the Light spread it self over Christendom, and continued bright till the Inundation

undation of the Gothes, Hunns, and Vandals, who ransaked Libraries, and defaced almost all the Monuments of Antiquity, insomuch as that Lamp seemed again to be put out, for the space of almost a Thoufand years, and had longer to continued, had not Menfor King of Africa and Spain railed up and spurred on the Arabian Wits to the restauration of good Letters by proposing great rewards and encouragements to them. And afterwards Petarch, a man of singular Wit and rare Natural Endowments, opened such Libraries as were lest undemolished, beat off the Dust from the Moth-eaten Books and drew into the Light the best Authors He was seconded by Becces, and 7 b: of Ravenna, And soon after by Aretine, Pollephus, Valla, Poggius, Onimbonus, Vergerius, Blandus, and others. And those again were followed by Eneus Sylvins, Angelus Politianus, Hermolaus Barbarus, Marsilius Ficinus, and that Price ix of Learning F. Picus Earl of Mirandula, who as appears in his entrance of his Apogie proposed openly at Rome Nine hundred questions in all kind of Faculties to be disputed, inviting all strangers thither, from any part of the known World, and offering himself to bear the Charges of their Fravel both coming and

and going, and during all their abode there: so as he deservedly received that Epitaph, which after his Death was bestowed on him.

Joannes bic jacet Mirandula, catera nerunt, Et Tagus, & Ganges, ferfan Antipsdes.

Here lies Mirandula, Tagns the rest doth know, And Ganges, and perhaps the Antipedes also.

And rightly might that be verified of him which Lucretius sometimes wrote of Epicurus his Master.

His genus humanum ingenie superavit, & omenes
Prastrinxit stellas exertus ut atherens
Sel.

obres riviriis prime bus prime

grown,

Ecclipsing them like to the rising

Sun.

This Path being thus beaten out by these Heroical Spirits, they were backed by Rodulphus Agricola, Reucline, Melantibon, Foachimus Camerarius, Musculus, Beatus Rhenanus, Almains; the great Erasmus a Netherlander, Lodovicus Vives a Spaniara; Bembus, Sadoletus, Eugubnius, Italians, Turnebus, Mnreins, Ramus, Pithaus, Budaus, Amiot, Sealiger, Frenchmen. Sr. Thomas More, and Linaker, Englishmen; And it is worth the observing, that about this time the slumbering drowzie Spirit of the Gracians began againto be revived and awakened in Bellarion, Gemistius, Trapenzentius, Guza, Argyropolas, Calsondilus, and others: nay, these very Northern Nations which before had given the greatest wound to Learning, began now by way of recompence to advance the honour of it by the fame of their Studies, as Olaus Magnus, Holfterus, Tyche Brabe, Frixius, Crumerus, Polonians; But the number of shofe Worthies, who like so many sparkling Stars

Stars have fince thorow. Christendom. fuc. ceeded, and many of them exceeded thele in Learning and Knowledge, is so infinite, that the very recital of their names, were enough to fill whole Volumes: And if we descend to a particular examination of the several Professions, Arts, Sciences, and Manusactures, we shall sture find the Prædiction of the Divine Seneca accomplished, Natural. Quest. Lib. 7. Cap. 11. Multa vementie avi populus ignota nebis sciet. The People of future Ages; shall come to the knowledge of many things unknown to us; And that of Tacitus, is most true, Annal, Libara, Cap. 12. Nec jomnia apud prures meliores prioria, fed nostra quoque etas multa laudis, . &. artium imitanda posterii tulis: Neither wefe all things in ancient times better than ours. but our Age hath lest to Posterity, many things worthy of Praise and Imitation. I shall conclude with what Ramus writes further, and perhaps warrantably enough in his Preface. Scholast. Mathemat. Majoram doctorum hominum & operum proventum seculo une vidimus, quam tetis antea 14. Majores nestri videruni. Wechave seen within the space of one Age, a more plentious Crop of learned Men and Works, then our-Predecessors saw in sourcen next going before

before us. But our prejudice is so great, against all things polited without the Sphere of our Knowledg; that all the advantage we can make of it, is, to condemn to the flame both Works and Authors. To acquaint Ignorance with the glory of the Heavens; the Magnitude, Distance, Motion and Influence of the Stars, is to present our selves guilty of that folly, never to be pardone, by that Multitude; amongst which, to appear wise, is a crime, so Capital, that a punishment, less, then what the good Bishop suffered, for holding Antipodes, canno: explate, which was no less than Death it felf. Judge then, what courage a man ought to be master of, that will expose his Judgment to Publick Censour. Cesar and Alexander had not more occasion to use it, then that man hath, which Mall dare to oppose an Opinion, which hath Generallity and Antiquity for its guard, to tell them, (that the Eight Sphere is Sixty five millions two hundred eighty five thouland and five hundred of miles from us; and that the least Star in that Sphere is greater then the Globe we tread on,) and to maintain it a: mongst the rabble, is as dangerous, as to be a Daniel in the Den, with the Lyons; to speak of the seven Planets, their Natures, with the Esseds that attends, their Times, Squares, Conjunctions, Conjunctions, and Oppolitions to any but Ingenious, is madnels it felt, the Zoisskun its Duodessime division of Signes, with their quaternal Triplicities, and the Suns progrets through those Signes, with the alterations that it occasions, as to heat and coldness of the weather, the length and shormels of the days and nights, the flourish and decay of all the fruits of the Earth affonites Ignorance. but to the Learned, observation hath made the reason of it obvious to understand. The language of the Heavens, how excellent a thing it is, all that have Souls of the first Magnitude can witnels. Angustus himself was so great a lover of this Science, that he caused the Sign Capricorn (it being the Ascendant of his Nativity) to be Starnped upon his Coin, and advanced the same in his Standard.

Tiberius did so dote upon the knowledge of the Heavens, that he learnt the same of Thrasillus at Rodes; and indeed, the Wonders that hath been told, by those that have understood the speech of the Coelestials, might justly encourage all to the same Study; for how could Gaurieus have admonished Henry the Second. King of France, from Tilting in the one and fortieth year of his age, but that he read the danger of it in the Starts; or the Bishop of Vienna assured Don Frederick,

where he should be King of Naples, Twenty Yenesbefore it happened. I could quote mahy more examples, of the like nature, if Trhought it were to any purpose; but my fieed is, that most of the Sons of Men, are to prepoffest with an injury against all inrelligiblenels, but that which tends to the filing of their Coffers, that a truth may exto the same welcome amongst them; that à true Saviour found amongst the false Treation of the Control of the Contr

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